

NINETEENTH YEAR, No. 12.

MILWAUKEE, DECEMBER, 1894.

\$1.00 per Year. 10c. per Copy.

Suggestions for the Repair Season.

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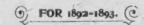
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3. A list of Millwrights

4. A list of Grain Elevator Owners and Grain Dealers.

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6. A list of Foreign Flour and Grain Importers, secured by our own special correspondents and believed to be thoroughly reliable. In short, it is a complete KEY for reaching the Flour and Grain Trade, enabling any department of the trade to reach any other desired.

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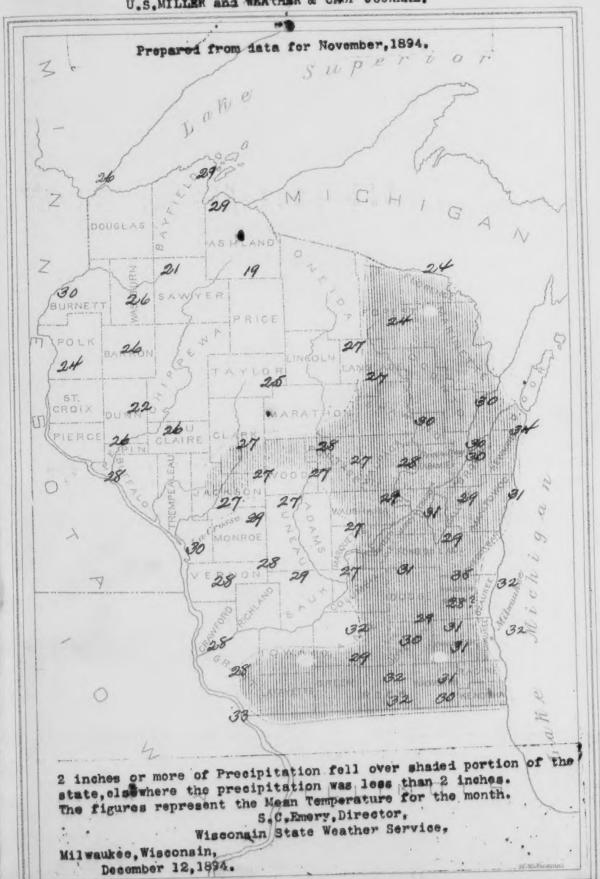
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MILLING FOR PROFIT.

Someone has well said that to make a success of life a man should know everything about one thing and something about everything; and certainly, if in these times a man would make milling pay, he must be up to every point, particularly in the manufacturing department. So much is meant by such little trifles aggregated in a week's or month's output, where such a bulk of produce is turned over each day, that in some mills the very sweepings would almost pay the men's wages. In the last article it was remarked that the miller should depend almost entirely on the manufacture for his profit, and to this end the highest paid man in his employ should be the man in charge of this department, that is, if he is not his own foreman. The miller who is paying his travelers 40s., 50s. and 60s. per week, and his mill foreman 30s. or 35s. had much better reverse the order; if he puts a good man in the mill and pays him well the flour will need less volubility to dispose of it.

"Attend to the details of your busi-

ness" is said to have been the motto of the founder of the famous financial house of Rothschild, and that saying may well be borne in mind by millers; but the reposeful content of the immortal "Miller of the Dee" has many imitators to-day, and though the content is admirable the lethargy if may produce is deplorable. This is often painfully evident in mill management, and is a fruitful source of waste and extravagance. Wherever a leakage occurs, whether of oil, or flour, or water, or time, it is a loss to the source from whence it comes, and is almost certain to be the harbinger of greater calamity. There is an axiom too often overlooked by managers and foremen, "Make it easy to do right and hard to do wrong." The successful mill manager wins the respect of his men, and they study by anticipating his will to conciliate his regard, but he, in his turn, has made good every defect and deficiency in the machinery and accessories, as well as in the structure of the mill. Such a man will stir in the breast of every employe a pride in the mill in which he works, which is of priceless value. Good men everywhere deplore the want of real interest in the mill shown by too many masters, and losing heart, exclaim: "Oh, it's no use to take a bit of pains." "It doesn't mat-

corner and cranny of some mills I

Foresight is very requisite that delays and stoppages may be avoided. through 100 GG. Nearly as much dif-Every hour a twenty-sack plant is ference as between the various samdelayed, provided there is trade to be ples of F.A.Q. Plate wheat one sees done, means a direct loss of at least about. £2. Spare parts and change covers should be looked to periodically when scientific principles—do not be afraid

inside on every floor, and in every menclature of miller's offals while he is about the equalization of weights in visit. This is the curse of many a merchants' quotations. Ask half a business, dulling, the edge of enter- dozen different millers for a sample of prise and effort. Bear in mind that "Pollard," and you will get samples everything matters, and must tell ma- varying from small bran passing terially in the profit and loss account. through 8-wire to a product little worse than low-grade flour, passing

See, then, that the subdivision of must be kept in stock; belts and gears your merchantile produce is done on

GOVERNOR-ELECT WM. H. UPHAM. TISCONSIN'S MOST PROMINENT MILLER.

the mill is still, for we must never of the adjective, for scientifically it

fall back upon paper and pencil as he goes from product to product, calculating with absolute accuracy the justment or dressing, according to the demands of his customers. Sometimes it pays to take out a little broad pays to grind up small bran on a pair of stones or fluted rolls and mix with

lose sight of this fact, that noise and must be done to be of any use at jar are power running to waste, like all-on exact lines. The proper utilsteam blowing off at the safety valve. ization of waste products comes in Further, the miller should always here. The grinding up of screenings and their proper disposal; the mixing in of extracted barley or oats to barley meal or rolled oats; the proper chances of profit from this or that ad- classification of all exhaust products, and in some cases the damping of small wheat and rye from the screen room and subsequent mixing of same bran to sell separately, sometimes it into the bran pays well. I notice a Liverpool firm has taken out a patent for a process somewhat on these lines, a little low grade American flour into but I fancy prior use can be shown of ter" is the bane of many a man's life. the "Pollard" or "fine sharps." Mr. some very similar method. All these separator, or some rough cleaner, to I see that legend writ large and in in Ibbotson might well take up the points affect the man who can figure the hoppered bins—an iron reel, or

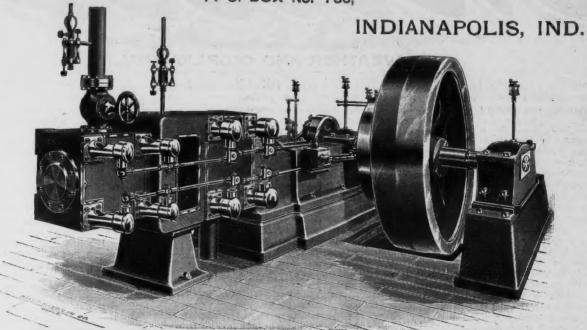
delible characters outside on the roof, cudgels for the uniformity of the no- out the pros and cons of every move to which this mixed and mixing business lends itself. The art of mixing and separating makes a science of chemistry and an industry of milling of hardly less importance than the actual manufacture.

Leaving the paper-and-pencil side of the question, we must enter the important realm of the rule of thumb and finger. The actual operation of flour-milling is one of the most interesting and enthralling occupations of our time, the infinite variety it admits of, the possibilities opened up, and the patience and skill it develops are amongst its chief charms. The fierce competition of this time has briskened us all up, and some of our modern mills are perfect models of administrative ability and industrial skill, trative ability and industrial skill, icize the smallest detail. To visit such an establishment is an intense pleasure to any methodical mind, and no effort should be lost to profit by such opportunities. Lately I met a milling friend from the West in Manchester; I found he was on his way North to see one or two good mills, and see if they were doing any better work than his own mill. Wise man! That little trip must have paid him a thousand times over. He returned with a little "wrinkle" or two, which should be of good service to him. Besides he had looked at his own mill from an outside critic's standpoint, and this is how every man should occasionally stand in relation to his business. "Times are bad, I cannot afford to go to the Convention," I have been told a score of times within a month. My retort is, "You cannot afford to stop at home, if your business is not paying you had better go away and learn how to make it pay; if you could go to Relfast and make £20 more a month on your bran than you are making now, or learn how to treat the Argentine wheats better, or how to make a decent sack of wheat-meal, you would save 50 times more than you can by grubbing and grumbling at home." A man may stop at home till he knows nothing. With his nose always on the grindstone, a man will hardly be able to see the proper rotating of the stone, yet it must not be forgotten that it is inside the mill the money is made.

Your wheat has come in-preferably up an elevator and not hoisted-has been weighed on a side platform and shot into a hopper at the elevator bottom, passing through a warehouse

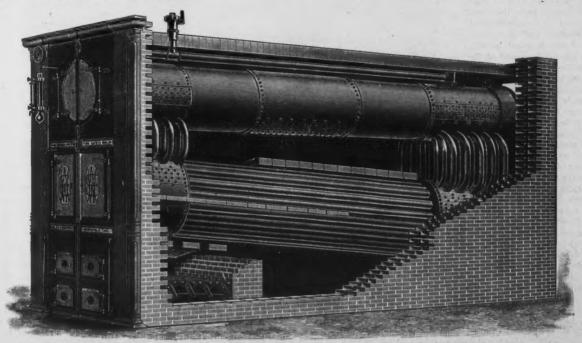
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inter-elevator, has the advantage of and semolinas than you can do good not requiring any dust-catcher.

are useful to ensure regular proportions, but particularly to clean and meal. Avoid making flour from your condition wheats separately the for stock before purification; purify well, mer process is most essential, except grind lightly, dress coarsely for a when of similar physical structure. It strong flour, but do not run your head is very necessary to remember that 1 against trade customs. You might as per cent. of impurities extracted in the well try to educate a heathen Chinese screen room allows of 2 per cent. more as a baker; he thinks he knows his flour being made in the mill of equal own business best, and very properly they would be different when they are brushing should be done just prior to Well cleaned and prepared pays. wheat makes easy milling.

The mill is the amphitheatre of our struggles for "branless flour and flourless bran." The wheat is weighed on an auto-weigher as it comes in tons, to begin its varied course through its destiny in flour or offal sack is reached; and who shall describe its hair-breadth escapes and crucial crises? Insist on regular feeds; there will be no variation whatever at the feed-gates, provided the wheat is kept right. There must be no over-crowding, no sending of coarse stock down amongst fine stock; keep the pure, good stock at the head end of the mill, give sizing-rolls plenty of room for impure stock, and feed pure stock and cause waste, have them altered freely to the rolls, giving them as much as possible without making them sweat or over-facing them. Get the finished offal away as soon as you can, both from breaks and purifiers touch of break and earlier reductions. Avoid flaking of stock; keep the rolls well exhausted and cool. Keep your break rolls sharp let your scalping be done gently; the same applies to your grading. You may do more harm this subject requires special treatment,

in subsequent purification. Those Mixers at the bottom of these bins long huge reeis do just as much harm to semolinas as stones did to the wheat quality. The difference between 1 per too, but if he would only listen to cent, of screenings and 2 per cent. of reason and take a suggestion, he might flour is usually worth considering. All get useful hints and aids from a miller. possible separations should be made Do not, however, obtrude your opinbefore washing or damping. Washing ions on him. Make him what he wants or damping and conditioning should and he will thank you. Tell him what also be done to suit each wheat. The he ought to have and he will do anycentral idea is that wheats should be thing but bless you. The great point in alike when going to the mill, and as milling is to have a keen appreciation they are generally different to start of little differences. Everything hange with, if they were all treated alike so much together in a modern auto matic mill, that some one man must be ready for grinding. Scouring and in touch with each department and have an intelligent grasp of all. Purigrinding, and not between drying and fication is an important process, but of cooling, and double brushing usually late it has been so much the vogue to exalt it far above aught else, that to emphasize its value would be superfluous. By all means purify well, but purify well early in the system; primary purification is of primary import ance; secondary purification is of secondary importance, very secondary roll and scalper and purifier, etc., until Do not imagine you are going to make patents from bran middlings by elaborate purification; it is not in it.

Sampling is an essential detail in mill working. Have samples taken daily from everything everywhere; see them yourself, and be quite sure some body else sees them. Make a point of comparing one day's work with another, and if things vary, find out why they vary; if things go wrong, find out why they go wrong; if things choke at once—they will not go right of themselves, and you had better put them right at once.

Look after the proper lubrication of all bearings, so as to ease the coal bill. dressing machines; adjust the If your engine takes more than two rolls accurately, and keep sight and pounds of coal per hour alter it, or pull it out and put in gas or a better engine. If you have water, make the most of it, but never run with a low head long; you had better stop and let the head get up.

Selling.-We must consider later, as

scour the country, practically picking up the very men local millers are glad to be rid of as customers. Such men land their principals in countless debts, thereby increasing the risk and worry out of all proportion to any prospective return. One large limited company actually show book debts amounting to upwards of £50,000, and this for only a 3,000 per week plant means an inordinate risk. If a principal is careless, indifferent, or unmethodical, the same spirit goes through the place. Indifferentism about your debts is the most malignant form of the disease, and inoculates the customer in a marvelous manner. It must be clearly understood from the first that you do business on such and such definitely-defined terms, and these will soon be respected. The satisfaction of returning large weekly sales is more than neutralized by one or two doubtful payers standing over, or collapsing into actual bankruptcy.-Cautious Conservative, in the Miller, London.

A FEW DULUTH ZEPHYRS.

The mills made a good run the week of November 24th, though the total product does not show up as high by 6.000 barrrels as it would if some of the mills had not been forced down for short intervals for trivial causes. The exact figures are 90,218 barrels, which A FOREIGN TRADE CONFERENCE. is 13,131 less than was made in the week preceding, and an average of 15,035 barrels daily, compared with 102,344 barrels made in the week earller, 80,429 barrels in the corresponding week a year ago, and 37,420 barrels two years ago. During this week, which is probably the last of navigation, the mills, barring mishaps, should make close to 110,000 barrels of flour, and they will do it if they run the entire week.

The shipping season is virtually closed, and vessel room is in brisk demand just now, though it must be said for the lines, that they have been very prompt in placing boats at the mills, whenever it was possible, and no very great wail for vessels has gone up from the millers, so far. Ice in the slips about the harbors has formed from two to four inches in thickness, and the present cold wave is making it still thicker. A mild spell of a week or ten days is looked for yet this fall, and if it comes, a surprising amount of flour will be shipped. Flour is held at an advance of 5 cents per barrel. Still the Eastern markets are reported firmer, and it is believed that if prices remain firm, as they no doubt will for a time, a good advance can be realized.

On December 1st, the head of the lake mills will abandon the use of the old fashioned hickory hoops for bar-The flat hoops, they claim, make a tighter package and prevents the sifting of flour from between the staves.

MICHIGAN CROP REPORT.

The total number of bushels of wheat reported marketed by farmers in October is 1,144,054. Of this amount 295,106 bushels were marketed in the first or southern tier of counties; 268,-580 bushels in the second tier; 182,544 grading and dusting your middlings but a word may be allowed as to reck bushels in the third tier; 254,432 bush- the crop looks well.

less over lapping of travelers, who els in the fourth tier; 124,285 bushels in the fifth and sixth tiers, and 19,707 bushels in the northern counties. At 20 elevators and mills from which reports have been received there was no wheat marketed during the month.

The total number of bushels of wheat reported marketed in the three months. August, September and October, is 3,620,728, which is 1,033,292 bushels less than reported marketed in the same months last year.

Corn is estimated to yield in the southern counties and the state, an average of 40 bushels of ears per acre. The area of clover seed harvested in the state is about 55 per cent, of the area in average years. The yield is estimated at 1.31 bushels per acre. Compared with a full average crop, potatoes are estimated at 53 per cent. in the southern counties, 54 per cent. in the central, and 47 per cent. in the northern counties, the average for the state being 52 per cent. Live stock is in fairly good condition.

The following statistics are from the farm statistics for 1893-4: Acres of wheat, 1893, 1,533,071; bushels, 24,432,-201; yield per acre, 15.94 bushels. Acres of wheat in May, 1894, 1,287, 865. Acres of corn in 1893, 797,797 bushels of ears, 37,761,594; average per acre, 47.33 bushels. Acres of oats in 1893, 843,406; bushels, 22,323,976; average per acre, 26.47 bushels.

The Manufacturers' Association of Cincinnati and Hamilton County, Ohio, have taken the initiative in a movement for the extension of our foreign trade which merits the hearty support of every miller and mill furnisher of the country. This association, desiring to promote the prosperity of the manufacturing interests of the entire country, have invited the commercial exchanges and manufacturers to send delegates to a conference of manufacturers, to be held in Cincinnati January 22, 1895, for the purpose of a general interchange of views looking to the formation of a National Association of Manufacturers, to advocate legislation to encourage manufacturing industries, to discuss ways and means whereby trade relations between the United States and foreign countries may be developed and extended, and to establish in South American capitals and other desirable points permanent expositions for the display of American products.--American Miller.

IN THE SHENANDOAH VALLEY.

Scott Abbott wrote as follows from Harrisonburg, Va., to the Millers' Review recently:

Milling in this locality is good. All the mills are running on full time, with a good demand for their entire output. The firm of J. C. Beery & Co., of this city, has been changed to the Beery-McFall Milling Co. This firm confines its business to the export trade, and have a steady demand for all their production. Mr. Simeon Heat-wale, near here, has recently put his new mill in operation, with very satisfactory results, the well-known firm of Aug. Wolf & Co. being the contractors. Wheat is being marketed quite freely and at the prevailing low prices, a great deal is being used for feed. acreage sown is about the same, and

[.] Members of Executive Committee





Lake Superior Mills. SUPERIOR, WIS. 6,000 Barrels Dally Capacity.

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DAISY ROLLER MILL GO. PROPRIETORS

Daisy Roller Mills, MILWAUKEE, WIS. ,800 Barrels Dally Capacity. H. E. BROOKS, Manager.

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News Notes.

Washington, D. C., Dec. 5.-The returns from th correspondents of the statistical division of the department of agriculture relative to the amounts of wheat fed to stock estimate the quantity already fed, that is to say; up to Oct. 30, at 46,030,000 bus, and the estimated amount to be fed 29,273,000 bus., making a total of 75,303,000 bus. The figures on which the feeding is based are merely the meager estimates from the states wherein the correspondents have complied with the request of the department and must not be taken as anything more than an attempted approximation of the local feeding of wheat from present supply.

The severity and length of the winter will necessarily influence the final findings upon this question.

The Illinois State Millers' Association yesterday decided to refuse to join the movement for a general shutdown of all mills in the United States.

Western flour millers are getting their ideas up faster than the market for either wheat or flour is going, and they manage to keep 10 to 15 cents ahead of the views of buyers here.-Journal of Commerce, N. Y.

The scarcity of corn in the West and the cheapness of wheat has induced the hog owners to test the value of wheat as a feed, and the result has been very satisfactory. Wheat has put fat on hogs to the valuation of \$1.30 per bushel, while the price of wheat in the market is about 55 cents | view.

Thousands of bushels of wheat are now daily being fed to hogs.

There is evidently something to be found out relative to the tonnage that lays up at Chicago for winter storage of wheat. The following circular has been sent out by general agents of insurance companies. An invitation to insurance agents to meet at Detroit, November 26, to consider the inspection of vessels which are to take on grain for winter storage has been sent out by Chicago agents. They say that every winter much grain is damaged by being stored in vessels on account of the boats being out on commission. They would remedy this by requiring a certificate from the underwriters inspector that they are fit to receive grain before being allowed to load. The lines of insurance are being drawn tighter and we will soon learn that vessel owners will protect themselves by entering into a mutual marine insurance system whereby some of the most expensive traits of carrying on a general office will be avoided.

The Champion Mills, operated by H. and L. Deal Milling Company, under the superintendency of Jas. M. Cook, have just finished a contract of five tons of buckwheat flour for a single firm, probably the largest order ever given to any Somerset County mill for this staple winter delicacy. The mill is rushing business right along, manufacturing their several grades of flour, which are very popular alike with dealers and consumers.-Millers' Re-

lately put in a penstock, three water wheels, gearing, etc., for C. Coyle, Carlisle. Pa.

Isaac R. Himmelwright has lately sold his mill property and 55 acres of land in Montgomery County, Pa., to William Himmelwright for \$9,500.

George Walters & Sons, Butler, Pa., have purchased one 36-inch Munson Portable Double Geared Mill from Munson Bros., Utica, N. Y.

During a heavy rainstorm last month John Prizer's mill dam at Kimberton, Pa., was washed out, causing considerable loss, amounting, it is said.

A milling firm at Doylestown, Pa.,-Swartley Bros. & Co.-publishes a double-column advertisement, three-quarters of a column deep, in a local paper, telling about their kiln-dried cornmeal, their choice brands of flour and facilities for grinding grists. The advertisement is a good one and the example of that firm ought to be more generally followed.

Aug. Wolf & Co., Chambersburg, Pa., through James J. Pollard, their general Central agent, have secured the contract of Moore, Mick & Co., Crawford, W. Va., for a 30-barrel mill.

A. F. Weitzel, Mount Nebo, Pa., writes: Business is good; I have no lo-

H. J. Gulden, Bendersville, Pa., has There is not so much feeding of cattle done here as there was last year .-Millers' Review.

> The Florida Milling Co., Florida, O., has placed a contract with the Barnard & Leas Mfg. Co., Moline, Ill., for machinery to remodel their mill.

> M. N. Hartz, general Atlantic agent for Aug. Wolf & Co., Chambersburg, Pa., has secured the order of Henry Waukein, Roxborough, Philadelphia, Pa., for a complete 20-barrel flour milling, blending and separating plant.

> Mr. D. Wells is overhauling the Elkton Flour Mills at Elkton, Ore., that was washed out last spring, and will put it in shape. To commence work on the same, some few supplies will be needed.

> Eugene needs a good roller flour mill. There is money in it for any person who has the necessary capital and experience. There is an excellent local market for mill products in Eugene.-Eugene (Ore.) Guard.

> Millers will have an opportunity of making an exhibit of their output at the Portland Universal Exposition that opens on December 1st, closing January 15th. This will be a good opportunity for the many millers to find out who will be awarded first prize for fine flour.

Think of a mill making 3291/2 barrels of flour every bour, 51/2 barrels a mincal competition. My high-grade flour ute! That is the unmatched record of sells for \$8 per barrel; second grade, the Duluth Imperial Mill Co. made \$1.80; corn (out of field), 72 pounds, 50 on the 23d of last month. It turned cents; 32 pounds, 35 cents; wheat, 50 out 7,905 barrels that day, beating the and 52 cents. Large fields of wheat best record, held by the Pillabury "A" have been sown in this neighborhood. mill, by 750 barrels. The Imperial is

an Allis mill and was designed by W D. Gray, of that concern.

Newark, S. D., men started a mill. Gurley, Ala., men plan a 50-barrel mill.

S. Hauer, Bethel, Pa., improved his mill.

J. Dorris, Elgin, Tex., builds a cornmill.

C. Coyle, Carlisle, Pa., improved his mill.

G. Wittig, Brock's Gap, Va., builds a mill.

Hurley, S. D. men started the Wedel

The Woodward, Pa., mill remodels to rolls. C. H. Pheips, Suffield, Conn., refits

his mill. H. Bly, Ironville, N. Y., started a

flour mill. C. W. Willis, Tyrone, N. Y., remodels

to rolls.

The Jackson, Tenn., Milling Co., refitted mill.

T. Revn. North Haron, N. Y., refltted his mill.

Percy & Kincaid, Eastwood, Ky., refitted mill.

J. E. Beard & Co., Broadway, Va., build a mill.

W. C. Pease, Somers, Conn., improved his mill.

J. Huffman, Gallatin, Tenn., started a corn-mill.

Long & Caron, Roxboro, N. C., built a corn-mill.

C. A. Winsor, Binghamton, N. Y., refits his mill.

W. M. Carner & Co., Quitman, Ark., build a mill.

W. D. Haycock, Tracy, Minn., improved his mill.

Harper & Smith, Camp Branch, Va., built a mill. J. A. Nutty & Son, Paperville, Tenn.

built a mill. W. Searson, Raphine, Va., builds a

20-barrel mill. J. R. Purcell, Vertrus, Ky., builds a

40-barrel mill. The Hopewell, Pa., mill sold to F.

B. Biggs & Son. Lumpkins & Co., Waynesboro, Tenn., built a mill.

B. D. Lewis, Elk River, Va., builds a 50-barrel mill.

The Arden, Pa., Milling Co. build a 125-barrel mill.

W. J. Funston, Gath, Tenn., builds a 40-barrel mill.

E. C. Williams, Ellington, N. Y., improved his mill.

The Lane Milling Co. leased a mill in Ottawa, Kas.

Smith & Huber, Guthrle, Ky., build a 40-barrel mill.

Moore, Bros., Cincinnati, Ark., build a 50-barrel mill.

W. L. Woodnut & Co., Hutchison, Kas., build a mill.

Morgan & Killian, Clyde, N. C., build a 30-barrel mill.

Victor Milling Co., Wichita Falls, Tex., refit mill.

White & Snyder, Clark Mills, Pa., improved their mill.

J. Sours bought a haif interest in the Hadley, Pa., mill.

Canton & Co., Irwin, Pa., leased their mill to J. P. Taylor.

J. W. Bradley, Palmersville, Tenn. built a 40-barrel mill.

H. S. Russell, mill, Cannonsville, N. Y., sold to G. S. Brazie.

The Sherburne Mill, Sherburne, Ky., build a 60-barrel mill.

S. Engle, Berlin, Pa., sold his mill to D. Altwater for \$3,000. H. Lord, Oswayo, Pa., leased his

grist-mill to C. M. Hallock. J. S. Borden & Co., Toms' Brook,

Va., build a 30-barrel mill. E. W. C. Edwards, Hopkinsville, Ky., builds a 40-barrel mill.

The Biscay Mill Co., Biscay, Minn., sold their mill for \$3,500.

W. A. Cummings, Aspen Grove, N. C., builds a 50-barrel mill.

R. G. Gaston & Co., Hominy Creek, N. C., build a 40-barrel mill.

W. Sprague, miller, Harrisville, N. Y., traded his mill for a farm.

The Sprague Flour Mill, Rochester. N. Y., sold to Woods & Gunn. H. H. Shrewsbury & Bro., Shrews-

bury, Ky., build a 40-barrel mill. Wm. Moyer, Rebersburg, Pa., sold

his mill to C. L. Gauly for \$1,850. J. P. Scott, Fayetteville, Ark., let

his contract for a 150-barrel mill. W. P. Sykes, Cleveland, Tenn., builds a 30-barrel water-power mill.

The Anchor Milling Company has gone into the hands of a receiver. H. T. Fowler, president of the Northwest ern National Bank, was appointed.

The company lacked ready cash. The assets are estimated at \$300,000 and the indebtedness will not exceed \$125,000. The court instructed the receiver to run the mill and fill all contracts.

This action was taken on application of W. A. Wilkins, secretary and treasurer of the company, to protect himself and other creditors. The company lacked ready cash but is strictly solvent. The plant is worth \$300,000, and the indebtedness will not exceed \$125,-000, of which \$25,000 was due and pressing. There will be no interruption of the mills filling orders.

Apropos of all the talk of Western flour millers shutting down in order to allow accumulations of flour, which are depressing the markets of this country and Europe, to work off, a dealer said: "It reminds me of what the late David Dows told me of a similar attempt of the millers of this state who controlled the flour market in old times, the result of which was that every miller in the agreement ran his mill full time in expectation that everybody else would shut down, and a worse glut of flour than before was the consequence."

Pillsbury's A mill made a run of 9.551 harrels in twenty-four hours one day last week, which is said to be the largest run of a single mill on record.

Is it not remarkable that all sorts of information comes from Argentine in regard to its crop? There are any number of provinces, presumbably in all sorts of condition. The favorable reports come from the good, and the unfavorable from the poor provinces. But the contrariety of the reports was well illustrated by the advices yesterday. One cable announced that the crop would be about 80 per cent. less than last year's, about 20,000,000 bushels less; another cable said the crop would be 16,000,000 bushels more than last year's.

Hoffman & Son, Kansas City: The factors in Kansas are exceedingly bullisb. The drouth is doing severe dam-

age to crops. It has already ruined a great many fields. We do not know of any time at this time of the year that the prospect was worse than at this time. Wheat feeding is going on at an ever-increas ing ratio, and wheat is actually getting scarce, and already many mills find it difficult to get wheat to run on. We predict an absolute scarcity of wheat before another crop. Many mills will have to go to Kansas City for wheat or else be compelled to shut

Shellabarger Mill Company of Decatur, Ill.: We never saw a time when wheat apparently was as scarce and hard to buy. Recently we sent out in the neighborhood of fifty offers all over the central and western part of the state offering 50 cents for \$2 wheat, and these offers were at a number of stations where the rate was as high as 12 cents to Chicago, and we have not succeeded in purchasing a single car based on those offers. The last three weeks we have reduced our stocks 30,000 to 40,000 bushels owing to the fact we are unable to buy to replace We cannot what we are grinding. help but believe that the bulk of the wheat is out of the farmers' hands, and country elevators are practically bare.

A practical farmer and president of Douglas County Agricultural Society, Neb., for the last two years, says: Un less we get rain or snow, and plenty of it, this whole western country will be abandoned in another year. Lakes and rivers are drying up, wheat that was sown this fall is not sprouted yet, and I don't think ever will now. This is true in portions of Iowa, Kansas and all of Nebraska. The farmers are driving fifteen to twenty miles buying corn from each other and paying 50 cents for it. Hay and all other feed is getting very scarce.

The "Manufacturers' Record" of Baltimore has compiled from advance reports of the United States Agricultural Department the production of corn in each of the Southern States, showing an aggregate increase in the South in 1894 over 1893 of 48,000,000 bushels making a total production in the South of nearly 500,000,000 bushels. There was a gain as compared with 1893 of 1,000,000 bushels in Virginia, 5,000,000 in North Carolina, 6,200,000 in South Carolina, 1,500,000 in Georgia, 6,000,-000 in Alabama, 10,000,000 in Missis sippi, 2,000,000 in Louisiana, 8,000,000 in Texas, 6,000,000 in Arkansas and 4,400,000 in Tennessee. Owing to the increase in the South and the large decrease in the West, the South has this year produced more than one-third of the total corn crop of the United States.

It was reported that the Superior mill failure was due to millers having been free sellers of flour along back before the advance, and that they had not bought their wheat, and that the late advance in wheat was what broke them. Another report was that they were long of December at the advance, and that the decline caught them and that their long wheat came on the market today and broke it.

The Cincinnati "Price Current" says: Calculations recognizing yield and pre- ment of last week's production of the

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vious surplus indicate invisible wheat holdings over entire country 1st November 56,000,000 smaller than last year; and, including visible, the total is 47,000,000 under last year. Wheat feeding continues liberally but less actively. As previously expected, portion of growing wheat urgently needing moisture, but average position is fair. Corn movement enlarging but not notably.

C. W. Carter & Co., Luray, Va., it is reported, will erect a steam flour mill at once.

Valentine Steck, Willow Hill, Pa., has contracted with Aug. Wolf & Co., Chambersburg, Pa., to build him a complete 25-barrel roller flour mill.

William Foutz, Rockbridge Baths, Va., it is reported, contemplates building a flour mill.

The Mill and Elevator Co., Luray, Va., has contracted with Aug. Wolf & Co., Chambersburg, Pa., through their Southern representative. John T. Pensinger, for a complete 75-barrel Wolf roller system flour mill.

Thomas Sterrett will probably build flour mill at Timber Ridge, Va.

Wheat in Central and Western Kansas is not in nearly so critical a condition as reported. True the plant needs moisture, and does not look as well as at the top as before the freezing weather, however, when examined, the roots are fresh and full of life, and the crowns of the shoots are thrifty and vigorous. The crop, taken as a whole, shows the wonderful adaptability of Kansas soil to nourish plant life under the most adverse conditions. With a fair supply of snow and winter moisture Kansas will be able to produce another phenomenal wheat crop in 1895.

The following is the detailed state-

Pillsbury-Washburn Mills breaking run of over 122,000, given by

	Total
	or Week.
Pillsbury "A" Mill	65,9431/4
Pillsbury "B" Mill	. 31,805
Anchor Mill	. 13,731
Palisade Mill	21,004
Lincoln Mill, not running, capacity.	122,4831/2
Total capacity of five mills Average daily capacity	. 130,873¼ . 21,812¼

D. Martin, of Hunter, N. D., says the farmers in that vicinity will probably sow a reduced acreage of wheat and increase the area sown to flax and barley. But little flax in that vicinity was sown this year, but south of there some farmers had in large areas, in some instances 2,000 acres.

Corn figures from lowa are startling. The total reaches less than 81,000,000 bushels compared with 250,000,000 bushels the year previous. An average of 12 bushels per acre for the banner corn state is a calamity.

Large country elevator lines in Northwest decreased wheat stocks 343,000 bushels last week. Smaller lines decreased stocks but 145,000 bushels and private houses at Minneapolis Trereased 29,000 bushels, making total decrease of 517,000 bushels for the week outside of visible supply stocks,

The visible supply of grain in the United States and Canada, as compiled by George F. Stone, Secretary of the Chicago Board of Trade, is as follows:

Dec. 8, Dec. 1, Dec. 9, 1894. 1894. 78,783,900 Corn, bus. 6,600,000 4,866,000 6,155,000 Gats, bus. 9,146,000 8,740,000 4,011,000 Barley, bus. 3,582,000 3,809,000 2,873,000

English visible supply of wheat decreased 1,300,000 bushels for the week.

The Prosser, Wash., roller milis that have been closed for some time have resumed operations.

Elgin, Oregon, is very anxious to have a flour mill; the country surrounding is one of the best wheat raising sections in the state; the Grand Ronde valley adjoins one part of the place.

Several experienced mill men with capital have been looking over the milling situation at Eugene. They now realize that that city is one of the best locations for a flour mill in the state, something which we have reiterated more than once, but "seeing is believing" every time. Before another year has rolled 'round we expect to see a mill in steady operation there.

The mill at Scio, Oregon, has received several car loads of Eastern Oregon wheat from Walla Walla. They intend to mix the Walla Walla and valley wheat, thus making a better grade of flour. This was the same work that the Northwest Flour and Shipping Company embarked on, and if it had been properly managed that company would have made a success of the enterprise. It is rather strange that other mills do not try this idea of blending the two wheats into one grade of flour; it has been tried and proved successful; and, moreover, the flour would command a better price and quicker sales.-Portland Review.

Charles W. Quinn, a well-known business man of Tacoma and one of the proprietors of the Cascade Flouring Mills, on Jefferson Avenue, died suddenly at his home, on Sixth Avenue contract was secured by Jno. Pensing-

record and Bee Street, Saturday, of consumption. Mr. Quinn, who was a brotherin-law of John W. Berry, president of the Cascade Oatmeal Company, came to Tacoma about a year ago, and was the chief promoter in establishing the flouring mill in connection with that plant. He was a practical miller of many years' experience, and at the age of 21 had charge of the big Pilisbury mills at Minneapolis. He was 38 years old at the time of his death.

The statement of the great Pillsbury Flour Mills in Minneapolis shows that they realized but 5 cents a barrel net profit on their output last year.

The Big Bend flouring mills at Davenport, Wash., have put in electric lighting machinery.

The Novelty Fiour Mills of Seattle, shipped 2,040 barrels of flour to Hong Kong last week.

Another mill, it is reported, is to be built in Portland by Oregon parties, with a capacity of 150 barrels per day.

A great many of the interior mills in Oregon are working on orders for the Orient trade. They maintain they are getting better prices than any other place they could ship to.

R. M. Miller and M. Swartout, two Everett, Washington, citizens, will establish a flour and feed mill at Everett shortly; grades wheat from east of the mountains and doing custom milling for the grain grown nearer home.

Chapman & Yount will probably build a flour mill at Henry, N. C.

It is stated that a roller flour mill will probably be erected at Charlotte, N. C., by C. L. Shriver, of Bristol, Tenn., who has been prospecting with this idea in view.

H. J. Klingler & Co., Butler, Pa., report a large crop of fine buckwheat this year. They say they are making probably the best flour they ever turned out. Pennsylvania buckwheat is noted for its sweet flavor, and on this account they are making large shipments into as many as fifteen different States. The freight rate on one order for the far Northwest was 921/2 cents per 100 pounds,-Millers

Paul Smith, Cropseyville, N. Y., has purchased three improved Bendersville Flour Bolts from H. J. Gulden, Bendersville, Pa.

Woodman Bros., Langhorne, Pa., will build a complete 40 to 50-barrel roller mill, and have contracted for the plant with M. N. Hartz, general agent for Aug. Wolf & Co., Chambersburg, Pa.

J. W. Dalton, Boonesville, Va., is building a corn mill.

I. W. Dorland, German Valley, N. J., has contracted with Aug. Wolf & Co., through their general Atlantic agent, M. N. Harts, for a complete 30-barrel Wolf system roller mill.

Aug. Wolf & Co., Chambersburg, Pa., have entered an order to furnish McCauley Bros., Hanging Rock Mills, W. Va., with the necessary machinery for a complete 20-barrel roller mill.

George F. Keeley, formerly of Glen Moore, Pa., has lately removed to Oatland, Va.

S. H. Heatwale, Hinton, Va., will build a 80-barrel roller mill, and the

er, general Southeastern agent for Aug. Wolf & Co.

Thos. Wentz's mill, at Bethesda, Pa., has been sold to David Earnhart. He has remodeled it to the roller system, Aug. Wolf & Co., of Chambersburg, Pa., doing the work.

J. T. Price and N. Viar are building a mill at Jack's Mill, Va.

A \$50,000 flour mill is to be built at Spartansburg, S. C.

A bonus of \$15,000 has been raised for a grain elevator at Mobile, Ala.

A Mr. Huber is equipping a mill at Ghent, Ky.

Gibson & Pinkston may build a mill at Harrodsburg, Ky.

Marcus Mill Co., Marcus, Cherokee County, Ia., have ordered from Barnard & Leas Mfg. Co., Moline, Ill., a full and complete outfit for a 35barrel mill on the Plansifter system. Also boiler feed mill.

The old Carter mill at Weatherford, Tex., is being refitted, and will soon begin operations as a new flour mill Saginaw Valley, Northern Michigan and the East under the management of McClesky

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I am offering for Sale the following Machinery at a Very Low

TWO KURTH COCKLE MACHINES, FIVE MORGAN SCOURERS FOUR IMPROVED ROUND REELS TWO SUPERLATIVE BRAN DUSTERS, TWO LACROIX AIR CIRCUIT PURIFIERS.

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MILWAUKEE, DECEMBER, 1894

We respectfully request our readers, when they write to persons or firms advertising in this paper, to mention that their advertisement was seen in THE UNITED STATES MILLER, You will thereby oblige not only this paper, but the advertisers.

Editorial.

NOT MUCH "ME, TOO."

Milwaukee millers were not very much "me, too," in regard to the Chicago concatenation's resolution to curtail the output.

The mills of Milwaukee are just now running half time, and one of them is shut down, but both of these incidents are usual and annual. Milwaukee millers are like the rest of Milwaukee merchants, independent, conservative, each sufficient unto himself for all the requirements and purposes of his own business. The Milwaukee miller does not let any one tell him how to run his business. He will curtail when he thinks that his business, not the business of any or all other mills, demands it.

That is the way most of the other merchants of Milwaukee act, by the way; and that way of conducting themselves has made a successful Merchants' and Manufacturers' Association here almost an impossibility. Milwaukee merchants do not seem to be friends for other reasons.

But while the rule of everybody for himself and the devil take the hindmost obtains generally in Milwaukee, the merchants are solid from practices of economy in business and at home. They are enterprising, with certain safe reservations. Hence Milwaukee flour mills are very liable to keep running and do as much or more business than any other mils of their size in the coun-

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d-

ent business methods anywhere else.

At this time, the beginning of December and the close of navigation, the flour mills of the city have begun to cut down their forces, and it is probable that several of them will soon THE UNITED STATES MILLER CO., close for several weeks. The Sanderson mill has already closed for an indefinite period. It was stated at this mill yesterday that the shut-down might last for three days or three weeks. All depended upon the demand for flour in the East. Every year at the close of navigation the rates on flour and other commodities to Eastern markets go up. This year they have risen unusually and are now \$1.60 above the rates which prevailed prior to the close of the season of navigation on the lakes. Eastern buyers have expected this and have laid in large supplies of flour that will last them for several months. They have learned that the rail rate is above the lake rate and always take steps to provide against paying it. It is quite probable that more of the mills will shut down within a short time. The only Milwaukee mill not affected is that of the Wisconsin Milling Company, which handles only corn which is ground into grits, hominy, etc. It is the largest mill of this description in the country, having a capacity of 800 tons a day. Nearly all of its product is shipped to the South, and the lake rates do not affect it.

> Harry Sanderson, of the Sanderson Milling Company, stated recently that the Milwaukee millers were divided upon the question of curtailing the output. Nothing has happened in Milwaukee as a result of the meeting recently held in Chicago to consider the advisability of operating the mills on half time from December 10 to March 10. It is claimed by St. Louis journals that if this plan were pursued the output would be sufficient to cover the demand.

This, however, may be viewed in another light, for it is generally understood that St. Louis markets are overstocked, and if such a plan were agreed upon it would give St. Louis an advantage over Milwaukee, where little flour is held in stock. Some temporary difficulty in securing wheat, as well as the recent advance in freight rates, gives rise to the division among Milwaukee millers.

According to Mr. Sanderson, the whole matter was in a chaotic state, awaiting developments.

Judge Seaman dismissed the plaintvery sociable as merchants, though iff's demurrer to the defendant's they may in some instances be great answer in the case of Samuel Alcorn against the E. Sanderson Milling Company on the ground of insufficiency. The special ob jections of the judge relate to counter-claims resting on the allegation of partnership liability. Other counterclaims, in the opinion of the court, did not come within the subject of the suit. The proceeding is for the enforcement of a claim for 12,000 damages for violation of a contract, by try. Milwaukee is not given to booms which plaintiff was given the right to and reactions, drunk Sundays and blue sell the product of the mill in New Mondays, and Milwaukee miliers will York and for dividend on stock bought in showing up the practices of certain considerably beyond the field of mili-

not curtail to help out millers of differ- by him. The company claimed that commission men, in handling the dividend was applied to paying for the stock. The plaintiff has twenty days in which to file a reply. . . .

> This is the confidential way a Milwankee Yankee miller talked through his hat just after he came out of that central meeting in Chicago:

> "The millers are confronted with a glutted market and the meeting at Chicago was to suggest remedies. It was agreed to curtail the output of all the Western mills one-third for one month. Over 600 millers, it is understood, have agreed to the arrangement. The millers claim to be selling flour at less than cost. The arrangement will go into effect before the end of the month."

"The usual weekly output of Mil waukee mills," said Mr. Kern, of the Kern milis, recently, "is about 45,000 or 50,000 barrels, but for the present, and for an indefinite time in the future, the output will be nearer 30,000 barrels a week."

Manager Kern said that his mills were running and would run halftime for a while, and he said that he understood that nearly all of the other mills were running half-time except the Reliance Mill, and that had been shut down. Mr. Kern said that he did not think there was any other rea son for the curtailing of the output in Milwaukee than the close of navigation and the maintenance of flour prices in the East, based on cheap lake freights. Mr. Kern said that his company had advanced the price of flour 15 cents a barrel to correspond with the difference between the lake and the all-rail freight, rates.

Manager Manegold, of the Reliance Mill, said that the mills were usually shut down at the close of navigation for a few weeks, but this year, he stated, there was another reason.

On account of the close of naviga tion the freight rates on flour to the East have advanced 20 cents a barrel, but the price of flour in the East has "Until it not advanced accordingly. does," Mr. Manegold said, "the mills of Milwaukee cannot get a margin of profit on Eastern shipments."

The Edward P. Allis Co., as owner of the Clark patents on flour dressers, has entered suit in the United States Court against the George Tileston Milling Co., of St. Cloud, Minn., who are using flour dressers manufactured by the G. T. Smith M. P. Co. These are the patents that were contested in the Patent Office for over six years by the Smith & Co.

The U. S. Miller will be sent free for six months to any address, for the first notice reaching us of a new flour mill to be erected at any point in the U. S. or Canada.

THOSE MICHIGAN HUSTLERS.

Secretary Reynolds, of the Michigan State Millers' Association, has sent us a copy of a lively circular letter containing a history of the Association. The following are some of the closing paragraphs:

Within the last few weeks the Association has done some excellent work

signed flour, which, as a preventive of this ruinous practice, ought to be worth many hundreds of dollars to the

So much for the work of the Associa-tion in the past, hastily and imperfect-ly given. What of the future? If a fourth of all the millers of any importance in the state can do so much, what could they not do if the other three-

fourths would join them in the work?

Much that has been done, has been of direct and lasting benefit to every miller in the state; this being par to every ticularly true of the reduction in the price of roll work, and the legislative work that has been done.
Will millers outside of the Associa-

tion longer rest content, and allow these and many other benefits to come to them at the expense of this Association, when the cost is so small, and might be made still smaller by an increase in membership?

I hope the responses to this letter, widely circulated, and so well intended, will be so general and so prompt, that that question will be forver answered in the negative.

Mr. Reynolds calls especial attention to the following resolution:

"Resolved, that it is the sense this meeting that each member of this Association should from this until the next meeting labor with their the next meeting labor with their neighbors with a view to getting them join the Association, and that they report at the annual meeting in person or by letter the result of their efforts."

WE SHALL NOT MISREPRESENT.

In the edition de luxe of the Roller Mill for November it is stated that the United States Miller has been misrepresenting the milling industry. That may have been the case, but it will

The editorial management of the United States Miller was changed last month, and while the new management may not be as editorially didactic and critical as formerly, it will never willfully commit misrepresentation. The new management of the Miller has no animosities, nor is it opinionated. We would increase harmony and co-operation among the millers of the country, defend good reputations, and we offer these pages for such use as will best represent and develop the great industry of the United States flour mills. Selfish schemes and cliques will not get any assistance in this paper. The United States Miller will be independent and fair and endeavor to be champion of American protection for American millers and grain dealers.

ARE WE IMPURE?

There is a man in Buffalo who publishes the Milling World, a paper that epitomizes the world of the flour and grain trade once a week in a very intelligent and popular manner. The issue of December 8 contains the following fraternal synopsis, and it was a most pleasant surprise:

"Our esteemed Milwaukee cotemporary has donned a new dress of fine type and extended its name to the United States Miller and Weather and Another change is Crop Journal. the adoption of a yellow cover. publishers are the United States Miller Company. We miss the name of Editor Seamans from the head of the editorial column. The Journal is evidently preparing to extend its lines ing pure and proper. We wish it suc-

If the grain field, especially the wheat field, is not a part of the milling field "pure and proper," then we may be a little impure and improper.

The spunkey little Market Record of Minneapolis defended Minneapolis last week as follows, after giving figures which never lie:

"This shows that the roads are charging Minneapolis millers 42 per cent. more for a haul from Minneapolis to Chicago than they charge the Duluth-Superior millers from Minneapolis to Chicago. These figures also show that there has been an over-charge of 31 per cent. going on all summer, as the same roads which charged 7% cents then now offer to do the same work for Duluth-Superior, with the haul in a different direction, for 54 cents. We that kind of work? Minneapolis has patronized these roads all summer and than to others."

EVERYBODY NOTICES OUR NEW DRESS.

The United States Miller has been re-Miller and Weather and Crop Journal. H. S. Seamans has retired from the editorial chair.-Modern Miller.

The Modern Miller flies this at the masthead of its editorial columns:

"The day will come when the Minneapolis millers will be glad to put Kansas hard wheat on their product, as three-fourths of the flour coming from the United States will be shipped from Kansas, Oklahoma and other Southern states."-London Corn Circular. Oct. 15, 1894.

COMMUNICATIONS.

Editor United States Miller:

I have heretofore pointed out the various efforts to keep exportable products in the country with the vain hope of raising their purchasing power. One of the latest of these is a scheme for a flour trust. And yet one of the biggest of the millers in the United States has been a persistent bull on flour for months past, with the result that now the stocks on hand are found to be embarrassing. The scheme of the proposed trust is a shut-down of the mills of Minneapolis, St. Louis, Milwaukee, Chicago and other points for six weeks. This would involve a loss of production amounting to 15. 000,000 barrels and would enable the millers to run the price up 50 cents or \$1. Its effects on the wheat market may be imagined. In fact, nothing could be more disastrous to the general trade of the country than such a move as this, which could not be initiated were the currency reduced to its normal level.

T. C. EDGAR.

Milwaukee, Dec. 10.

LONE STAR MILLERS.

The millers of Texas have adopted the following constitution:

1. The name of the association shall luck.

be the Millers' Association of Texas.

- 2. The objects of the association are the mutual benefit and protection of the milling interests of Texas.
- 3. The officers of the association shall consist of president, three vicepresidents and one secretary and treasurer combined. In addition to the above officers, two other members of this association, making seven in all, shall constitute the executive board. All officers, including executive board, to be elected annually, and hold their respective offices until their successors are elected.
- 4. The headquarters of this association shall be at Dallas, Texas. General meetings shall be held every three months at the headquarters of the association on the second Saturday of December, March, June and September. Special meetings of the executive board of the entire association are subwould ask: Where is the justice in ject to the call of the president whenever or wherever he sees fit.
- 5. The initiation fee to be \$10, with paid 31 per cent. above the rate to monthly dues of \$2 per month. If this others, and now that winter is upon amount is found inadequate to conduct us they stand ready to work further the affairs of the association, the exinjury by charging 42 per cent, more ecutive board has the authority to assess each mill for additional amount to meet current expenses. It shall be the duty of the executive board to conduct and control the entire affairs of the association and appoint such comorganized and "redressed," and now mittees for different purposes as they bears this title: The United States deem best for the interests of the association. All meetings to be presided over by the president, if present. These by-laws may be changed by a majority vote of the members at any regular meeting of the association, or at any called meeting when due notice has been given to all the members of such contemplated change.

6. Any milling company of Texas wishing to become a member of this association may do so on payment of \$10 initiation fee and a signified willingness to abide the constitution and by-laws of the association. Any member of the association failing or refusing to pay the monthly assessment may, at the discretion of the executive board, be suspended from membership. Any member of the association wishing to withdraw from this association shall give three months' notice to the executive board through the secretary.

MILL ACCIDENTS.

Most of the mill accidents happen through a carelessness resulting from familiarity. As long as an operator is afraid of his machine he is not apt to get hurt. The only way to lessen the number of casualties in a mill-they cannot be avoided entirely-is to take all precaution in placing guards over or around running machinery and belts that circumstances will permit of, and post up rules printed in large letters warning the employes what not to do. Something of this kind is required of the owners if they wish to escape costly damage suits. Leaving trash on the floor near running machinery, which is liable to cause one to slip or stumble, is a fruitful source of casualties. When all possible precautions have been taken, one can only then trust to luck, and if the frightful list of casualties is lessened we may call it good

HOWARD WANTS TO KNOW.

Congressman Howard would like to know ere Grover got his far-famed dough.

Of bonds and stocks he owns galore, Where ne'er a cent he owned before

When Grover left the Governor's manne He boasted but a pair of "pants."

Since sailing with Bold Ben, the broker, He seems aboard the boat with Croker -Unknown Gentus

WHEAT FEEDING.

This experience in wheat feeding is given by David Balo, an Ohio farmer. He had fifteen pigs that came about the 10th of April, 1894. They had little during the summer but grass-no clover. On August 20 he engaged them for 5 cents per pound, to go away in October. The weight on first date, fifteen pigs, was 1,304 pounds; weighed the wheat and began to feed wheat by soaking twenty-four hours before feeding. Fed nothing but wheat for thirty days. The hogs had the range of a five-acre grass lot with plenty of water in it. The last eighteen days he fed new corn in the ear with wheat. The hogs were delivered October 8. Weight of fifteen pigs, 1,304 pounds; value, \$65.20. Fed sixty-four bushels of wheat, at 48 cents per bushel, \$30.72. Fed twenty-five bushels of corn, at 50 cents per pound, \$137.50. Deduct hogs October 8, 2,750 pounds, at 5 cents per pound, \$137.50. Deduct \$65.20, the first price of the hogs, and \$12.50 for corn from the \$137.50, and you have left for the wheat, sixty-four bushels, \$50.80. That is certainly better than selling wheat at 48 cents.

In writing from Jansen, Jefferson County, Nebraska, a subscriber of the Price Current says: "I notice you have ecently given no correspondence from Nebraska, and while I hesitate about intruding myself upon you I will be glad to furnish you such information from this region as may be desirable. I farm and control about 4,000 acres in Jefferson County, southeast portion of the state. Have lived here twenty-one years, and was among the first settlers who came here from South Russia in 1873. Our corn crop is very poor, the

have lived here. Wheat was fair, about 15 bushels per acre; is all being fed. I am feeding 12,000 head of Western sheep, and expect to feed 30,000 bushels of wheat this winter. No cattle being fed in the county. Plenty of young pigs, and they are being fed on wheat. Wheat planted this fall about 75 per cent. of last year's acreage that was harvested. Very dry and windy, and wheat suffering."

The indications in regard to wheat feeding are that a moderate decrease is now shaping, but this is consistent with previous calculations, and the recent estimates are undoubtedly being justified by the current absorption of this grain by animals. It is interesting to note the confirmation which the government statement affords of the estimates which have been submitted by the Price Current. Four weeks ago this paper reported 40,000,000 bushels as the indicated disposition of wheat by feeding to animals, and approximately 75,000,000 bushels as the total for the season, based on information obtained by an extensive special inquiry. The government figures now promulgated are 46,030,000 bushels as the quantity fed thus far, and 29,273,-000 bushels as the probable quantity to be fed, making a total of 75,303,000

THE U. S. MILLER O. K.

Mr. Gregg Boorman has an excellent sketch of milling journals in Printers' Ink of Nov. 21. He concludes the sketch as follows:

"Milling papers that stand well in their particular fields are: The Roller Mill, Buffalo, N. Y., a monthly; the Southwestern Miller, St. Louis, monthly, and the United States Miller, Milwaukee. Wis.

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SPRINGFIELD, NEW YORK CITY.



THE MILLER'S LATEST CROP NEWS.

Nov. 26.-Very little wheat has been sown in the state so far and that sown is doing very poorly. Some correspondents state that there is not . enough of moisture in the earth to cause the seed to grow and germinate, hence a poor stand generally.

Farmers gathered some corn during the week and in some localities the crop is about gathered, while in others a good deal is still standing in the

INDIANA.

Seymour, Jackson Co.-Corn has matured and much is already garnered. Recent rains have improved the condition of the wheat crop, which at the end of the month is fairly good. Fall pasturage is short because of the drouth, and many farmers are feeding the stock.

Vevay, Switzerland Co.-Fair and pleasant weather characterized the month. The crops have been secured in fair condition; the growing wheat has suffered some from the drouth but the rains at the end of October have greatly benefited its growth.

Marion, Grant Co.-Wheat and fall pastures are in excellent condition; the weather has been quite favorable for their growth; corn gathering has commenced; it is in good condition for cribbing; the yield is fair and the quality good.

South Bend, St. Joseph Co.-The very large acreage of wheat sown in this county is in best condition at the end of the month; much corn has been sown to wheat. Pasturage is in good condition and stock also.

Crawfordsville, Montgomery Co .-The month has been warm and nice in general. Farmers were busy gathering a good crop of corn. Wheat looks well, pasturage is good and there is plenty of stock water.

NORTH DAKOTA

Dickinson, Stark Co.-The weather in Stark County (the first week excented) has been excellent for shipping, business and agricultural pur-The market gardener has rejoiced over the good things produced by his arduous labor. Perhaps never in the history of the county has such an abundance of vegetables greeted the husbandman. Cattle shipments, too, have bene heavy from Stark, bringing in one million dollars.

SOUTHERN CALIFORNIA.

Ventura Co.-The weather has been clear and cold with no change in conditions since last week. Dry plowing for grain has begun for grain under favorable conditions; all available land will be cropped the coming year. Riverside Co.-The days were warm

lemons are promising. Barley and wheat are being extensively sown. Everyone is hoping that the winter and that a bountiful harvest may re-

Orange Co.-The mornings were generally forgy. Barley sown early is coming up nicely in places and is doing well as the fogs keep it from drying out.

CORN UP, WHEAT DOWN.

Washington, D. C., Dec. 10.-The returns to the statistical division of the Department of Agriculture for December relate principally to the average farm price of the various agricultural produce on the first day of the month. By farm prices is meant the price at the farm or at the nearest local or fitted mill. railway market. In comparison of these prices with commercial quotations allowance must be made for cost of handling, transportation, profits of dealers, etc. The farm price of corn averaged 45.6 cents per bushel, which is 9.1 cents higher than the corresponding price of last year, which was 36.5 cents per bushel. This price is 6.3 cents per bushel higher than the average price for the decade 1880 to 1889. and is just 4 cents higher than the average for the four years 1890 to 1893. The average price of wheat is 49.8 cents per bushel, the lowest price in the past twenty-five years. This price is 33.9 cents less than the average for the ten years 1880 to 1889 and 22.1 cents less than the average for the four years 1890 to 1893. The returns make the general price per bushel of rye 50.5 cents, which is 1.3 cents lower than the price at the same date last year. The average farm price of oats as returned for Dec. 1 this year is 4.1 cents higher than for the corresponding date last year, being 32.9 cents per bushel, against 28.8 Dec. 1, 1893. The average farm price of barley is 44.3 cents per bushel against 40.6 cents for the year 1803, or a gain of 3.7 cents. The price for 1892 was 47.24 cents. The average price of buckwheat is 56.2 cents per bushel, against 59c for the year 1893, or a decline of 2.8 cents. The returns show the average price of hav to be \$9.18 per ton, while that of last year on the farms was \$9.12.

The average condition of corn is 45.7. The condition of winter wheat on Dec. 1 averaged 89, against 91.5 in 1893 and 87.4 in 1892. In the principal winter wheat states the percentages are as follows: Michigan, 92; Indiana, 88; Illinois, 91; Kansas, 72; Nebraska, 76; California, 92. The returns of correspondents of the department make the acreage of winter wheat sown last fall 103 per cent of the final estimate of the area harvested in 1804, which was 23,518,796 acres, a larger figure than the preliminary estimate given out in June last, which, upon further investigation, was found to be too low. This preliminary estimate therefore makes the area sown for the harvest of 1895, 24,224,000 acres.

IOWA CROP REPORT.

Des Moines, Ia., Dec. 10 .- The final report of the Iowa crop service for and the nights cool. Oranges and 1804 was finished today. The showing of aggregate products is better than was deemed possible; if the freezing weather is deferred and there rains will begin by December 15th are good rains, these deficiencies may be corrected, but the general stamina of the plant is less satisfacport on the quality of corn indicates about 77 per cent. of the crop mer-000,000 bushels, the amaliest since 1883. overproduction now going on, so that point in the U.S. or Canada.

THE MILLING WORLD AS A NEWS prices will not drop still lower. At the ROTERRE

-Alford, Ia., men started a mill.

-J. B. Maolowski, mill, Dyer, Ind., sold out.

-8. Oyer's feed-mill, Ashford, N. Y., burned.

-Culver & Kelly, Audubon, Ia., re-

-Doehler Bros., Waukon, Ia., refit their mill.

-The Algona, Ia., spent \$3,000 in remodeling.

-J. J. Short, Vail, Ia., sold his mill for \$20,000.

-8. Foot leased the East Troy. Wis. Roller Mill. -The Schultz Mill Co., Okawville,

Ili., dissolved.

-The Marcus, Ia., Mill Co. build a 35-barrel mill. -Miller & Son, North Lima, O., re-

fitted their mill. -W. O. Ebersole & Co., Munson, Ia.,

remodel mill. -The Hambleton, Ia., Milling Co.

started their mill. -Jones Bros., Samaria, Idaho, build

a 50-barrel mill. -L. Gilchrist, mill, Walker, Ia., sold

to C. G. Newell. J. G. Roescheis, Cassville, Wis., added a feed outfit.

-H. H. Bremerkamp, Decatur, Ind., refitted his mill.

-The Artesian Roller Mills, Springfield, Ill., refitted.

-D. Fulmer, mill, Oil City, Wis., sold to C. F. Kiesner.

-K. L. Tanner, mill, McKinney, Ky., sold out for \$7,000. -Appleman & Longabaugh, Findlay,

O., started a mill. -The F. M. B. A. Milling Co., Shel-

byville, Ill., refit mill. -Mead & McDonald, mill, Milton,

O., now Mead & Prior. -The Potter & Huntington mill, Bar-

ton. Wis., remodeled. -J. Van Buskirk, Shenandonh, Ia.,

builds a 100-barrel mill. -W. J. Hume, Bowling Green, Mo.,

builds an 80-barrel mill. -Lash & Deal, mill, Farmersburg,

Ill., now Lash & Jennings. -Miller Bros., Vassar, Mich., added

a buckwheat equipment. -Crites Bros. & Co., Circleville, O.,

double their mill capacity. -Hire, Anglin & Johnson, millers,

Etna Green, Ind., dissolved. -The Morgan Roller Mill Co., Jack-

sonville, Ill., remodeled mill.

-The Southern Grain Co., Rich, Mo., build a 150-barrel corn-mill.

-The Hatfield Milling Co., Decatur, add a 2,500-bushel corn outfit.

HOW EDGAR TALKS AT HOME.

This is the way W. C. Edgar, the Russian philanthropist, talked in Minneapolis about that "curtail" meeting in Chicago:

"The result of the discussion was a set of resolutions advising the necessity of curtailing the flour output of the country. That means, in brief, a partial shut-down to be agreed to by tory than a year ago. A special re- 500 millers who were represented in the conference. It is not an attempt to increase prices, as has been stated, chantable, or in round numbers 1,100,- but a movement to stop the constant

present time the conditions are such that the market price of a barrel of flour is less than the cost of production. This is the dull season of the year, for in the country mills the wheat to be ground is plenty, and so production is increased. In the country there is probably a daily output of a million barrels. Should the 500 mills represented in the committee, which have a daily capacity of 350,000 barrels, shut down at once, it would not affect the price of flour for some time. That shows plainly the necessity for a temporary curtailment of the product.

"A circular will be prepared with the results of the conference and submitted to the millers, favoring a run on part time until the market is relieved. In 1888 the same conditions existed at this time of the year, and a similar plan was formulated and carried into effect successfully. Some of the mills will be forced to shut down anyway. and most of them will run at a loss. The idea is to distribute the losses which must necessarily be incurred, and by a combined effort keep the market up until the stagnation is relieved. Of course in depressed financial conditions people do not buy in quantities, and consequently the grocers and jobbers limit their supply in proportion. Now if the production is the same the result is that there is more product forced upon the market than can be cared for, either at home or abroad, where the conditions are more changeable. The proposition submitted to the millers, if adopted by all, ought to relieve the market, while not increasing prices. Then the conditions can become equalized and a better market prevail, with the demand equal to the aupply."

A DISTANT RIVAL.

The movement looking to the organization of all the milling associations in the United States into one body is taking on form, and present indications promise success. A meeting of delegates from the various milling associations of the country will be held at Chicago soon, the date not having been agreed upon at this time. The question of first importance to come before that meeting will be that of national organization. The most reliable information obtainable at this writing denotes that the Southwestern Winter Wheat Millers' Association. the Kansas State Millers' Association. the Winter Wheat Millers' League, the Michigan State Millers' Association and the Southern Minnesota Millers' Association favor the creation of a national organization, built upon the existing local organizations. It is believed, also, that practically all the state and sectional organizations favor the movement, the only difference of opinion being with regard to the plan of organization.-Modern Miller.

The U. S. Miller will be sent free for six months to any address for the first notice reaching us of a new flour mili to be erected at any

Correspondence.

DULUTH.

The history of the flouring mill business at Duluth for 1894 has been made and the concluding pages are more satisfactory than the opening chapters. While the past year has been, in many respects, a most depressing and unsatisfactory one in all branches of trade, yet in the flouring mill business at the head of the lakes all previous records have been broken as to the production and shipment, and the year closes more favorable to the milling men than the most enthusiastic operator had expected at the beginning of the season. The general export demand, as is well known, has been light throughout the entire year, and that situation was made more unfavorable to the mills in this country by the elimination of the foreign southern countries by the action of congress. Next to the Western European demand, that which came up from the outside countries lying south was the most desirable, and that, on account of the treaty relations and taring had been entirely obliterated. Cutting off, therefore, nearly onefourth of the light export trace, and considering the fact that the year just closing has been one of the most inactive in all domestic quarters within the history of the present generation, it is not surprising that the mills have had an unusually hard time of it in disposing of their output. Prolonged strikes and idle foundries throughout the country are not productive of a large flour consumption on the part of the masses, and, consequently, the domestic trade has been on a par with the indifferent demand from abroad.

Those mills which had depended wholly upon a southern export trade or which have been in an out of the way place, so far as the home trade is concerned, have had an especially hard season to battle against and the wonder is that, with but few exceptions, all have been able to hold their own to the end. Of course, at the head of the lakes the mills are more fortuunte on account of the cheap transportation to the seaboard for the foreign output and the equally cheap rates into the heart of the New England consuming territory, and will, in their final balance sheets, show reasonably fair profits. The mills here are new, equipped with the most modern machinery, constructed and operated with special view to good flour and economy, and these facts, taken in connection with their advantageous location, will account for the better showing that they are able to make than those mills at Minneapolis and other interior points. It will be remembered that recently the Minneapolis millers were disposed to poke considerable fun at the claim of the great Imperial mill at this point as being one of the best conducted large mills in this country and in the next breath the same syndicate which controls the big mills there was apologizing to the English owners for the inability to pay them any dividends for the current year. While the Im-

dividend coupons to stockholders, the definite period of time, it will be the confusion has been the result. Several so far has charged that the English fronts the millers now is that of transcapable hands; that there is the year's the Minneapolis concerns. Mr. Pills there will be but little shipment of his isolated position, rendering it im- rail tariff remains on a basis of 371/2 product on an equal footing with the pected that a 35 cent basis will be into by the mills here, which may ac- with Minneapolis, which began its 35sales. He has also been handlcapped can make no quotations of prices for espionage and interference of his poli- this question is settled and this may cles and management. He has been have a tendency to bring some anforced to carry on an elevator storage nouncement from the roads within the business on a large scale, because the next week or two. Quotations at this English were fearful of the methods of writing at the milis for car or round the home speculators. The syndicate lots, per barrel of 196 pounds are: has finally decided to go out of the cleantor business. Besides all this. much money has been expended in attempting to patch up antiquated mathe modern facilities of the Duluth jute bags and mills. But the chief explanation is expressed in the one word "location." Withdrawing all checks and interferences that may have been interposed 30@35c is deducted from the price in wood. on the part of the English owners. giving the home management over the property full swing, it is now evident as the production of flour and the profsuch plants as are here located at the head of the lakes.

The amount of flour manufactured at the head of the lakes during the with the same season last year, is shown in the following figures:

		erlor	—Du	
	1894.	1893.	1894.	1893.
April				
May	159,157	74.800	89.533	75.619
June	262.683	94,901	94,928	56,468
July	137,244	99.161	53,972	39.049
August	252,014	128.000	76,592	66,397
Sept'mb'r	261,004	109.314	106,819	98.112
October	248,147		151.872	103,752
Nov'mb'r	260,287	194,888	186,285	
Nov'mb'r	260,237	194,388	186,285	135,968

The run up to the close of navigation, especially during October and November, was especially brisk, the milis in November turning out a greater number of barrels than for any previous month. 395,522 barrels of flour, which is very per week. The production and receipts with the same mouth in 1893, were as

Production, Superior... Production, Duluth... Receipts

Since the close of navigation and will not be insisted upon. during the past two weeks the high tion at all have been running at a

across the water that on account of month or two, by which time winter remains. throughout the New World, there will have adjusted themselves, when a cheer their Christmas assets. No one most interesting question which conmill property here in honest and closed season, and until that is finally business accumulate stock, and it is intimated can be attributed, as it would that unless fair and reasonable rates seem, wholly to the bad location of are promulgated by the Trunk lines, possible to buy his stock or to ship his cents to New York, although it is exterritory has been invaded and cut place the head of the lakes on a parity count for some of the differences in his cent basis early in the month. Millers

First patents, in wood... Second patents, in wood... Fancy bakers', in wood... Export bakers', in wood. Low grades, in bags.....\$3.25@3.40\$.10@3.20\$2.35@2.45 1.60(01.70

A discount is made from flour in wood in chinery in an attempt to compete with ravor of sacks, as follows: On 280 and 140-lb h b cotton sacks, 20c; cotton sacks, 10c; paper sacks, 20c. In 241/2 lb cotton sacks, the price is the same as in In half barrels, 30c extra is charged wood. When packages are furnished by the buyer,

While the past season will average fairly well with former years, so far that the Minneapolis mills are in no its on the business is concerned, maposition to successfully compete with rine interests, which are closely allied to the flouring and grain trade, would report that the year has been an unfavorable one; in fact, it is believed that when the balances are finally navigable season of 1894, as compared struck for the navigable season, it will be found that many of the boats have not paid expenses.

In a previous letter I stated that it had been demonstrated that the Imperial mill at Duluth was the greatest flour producing machine in the world. Since that writing the Pillsbury "A" has made a spurt and eclipses the Imperial record by several points. The Total1,625,173 917,018 722,808 610,346 total daily average of the big mill at Minneapolis is given at 9,323 barrels. When this bulletin came in on the Board of Trade, there was an im-Church, of the Imperial mill, in the The record being center. The menagerie on 'Change had considerable fun with the genial of flour for November, as compared place for the present. There is one cells in, and a very material one by the way, and that is the dividend paying record. But as this may be a delicate subject for the Pillsbury "A," it

leisurely rate, the output being but The one cent a bushel rule which has nominal. While there will be no con prevailed, has been disregarded by arrange for inspection under the servperial was steadily sending out its certed action for closing down for any some of the operators, and no little ices of another state. The whole

Pilisbury syndicate, on black bordered policy of the milis to run irregularly, meetings have been held and a demand note paper, was writing its owners at their convenience, for the next made to abolish the rule, but it still A committee has finally the business paralysis which obtained conditions of market and freight rates been appointed to devise some compromise measure and the matter stands would be no forthcoming dividends to renewal of activity is expected. The until that report comes up. One of the disturbing features in this regard has been that the West Superior firms mill owners have not placed their portation to the seaboard during the have all advertised to do business for 14 cent per bus, on their board and it no settled there will be no disposition to has been a serious question for the Duluth board to consider whether it will see business thus diverted which otherwise would come here. These Superior firms, many of them are membury has not only been hampered by flour during the winter. So far the all- bers of the Duluth board, come over here and vote for the 1 cent rule and then go back home to advertise to do the same business in Superior for onemills at the head of the lakes, but his made public very soon. This will half of what is advertised here. These matters, however, will all be adjusted in due time and by the time when the splendid new building is ready for occupancy, the board will not only be by old-fashioned facilities, by English December and January shipment until the largest in the country, but in all probability, the most harmonious.

> The new board of trade building, by the way, is to have something entirely unique in this part of the country. The board have just purchased, outright, from a telephone manufacturing concern 150 telephones. These 'phones will be used entirely to afford communication among the board of trade offices and there will be a central office just as in ordinary systems; the building is now being wired for this purpose.

> The Imperial mill is running a portion of its machinery this week, but the grinding is not being crowded and while it may run more or less regularly during the month, it is expected that it will be idle during a greater portion of January, in fact it is now thought that almost all mills at the head of the lakes will be silent during that month and some of them possibly for a longer time.

It is with no little pain-Duluth cannot be annoyed by anything done by her erratic sister across the bay-that it is noticed the Superior Board of Trade is endeavoring to establish what it pleases to call the "Wisconsin System" of inspection, discarding the world-renowned Minnesota system of inspection, under which all the wheat which comes to the head of the lakes passes. From the earliest time when Western Minnesota and the Dakotas began to pour their bounteous crops into Duluth the present Minnesota system of inspection has prevailed promptu war-dance, with Manager and all the wheat which comes to the head of the lakes passes under it. The Superior board now desires to change this order of things and in that regard nearly an average of 100,000 barrels Mr. Church, but the record stands, has some assistance from certain and the Imperial must take second farmers in North Dakota. Recently, a delegation came down from the record, however, that Mr. Church ex- northerly state, with a complaint that their excellent Number 1 product is generally mixed with the inferior wheat of Minnesota and comes out lowered in the final inspection, in other words, they make a direct claim that The usual equanimity of the Duluth the North Dakota wheat is a superior pressure has been withdrawn and Board of Trade has been disturbed quality to that raised in Minnesota, those milis which have been in opera- for some time past by a sort of "go as and as a consequence, they want to be you please" rule as to commissions. separated from the latter and to accomplish this, they are endeavoring to

trouble is, and I suggest it to them as gently as possible, the gentlemen from Greenville, W. Va., by Ellis Bros. North Dakota are mistaken in the quality of wheat they send to this flour mill at Louisburg, N. C. market; it is no better than the Minnesota wheat: much of it is not so good. The remedy lies here: Sow better wheat and raise better crops and the Hiram, Me., by George R. Bean. final inspection will show better when they bring their wheat to market. If the farmer plants the best of seed and properly tills the ground in which it is sown, he is certain of the best possible price for his wheat in passing it through the hands of the Minnesota grain men, and every well-posted farm er of the Northwest knows the truth of this statement as well as do the commissioners of North Dakota, who are lending their aid to the Board of Trade across the bay to disarrange the present condition of things. Interests are too nearly allied, at the head of the lakes, to make it possible to build up two separate grain centers, and, as in the past, it will be in the future, the principal business will be transacted in this city. Here is centered the capital, the facilities and the prestige, which will control. In all legitimate ways, the Duluth Board of Trade has ever been willing and ready to assist the Superior traders, and it now points out to them that they would injure themselves if by any chance they succeeded in interfering with, or disturbing in any way, the well known and generally satisfactory Minnesota system of inspection

A sale has just been made by the Duluth Board of Trade of the lot on which its old building was burned, for \$65,000, cash: fifty-foot front. This will make a neat lining for the composite Christmas stocking of the local feed mill at Beechwood, Wis. bulls and bears. J. F. H.

Duluth, Dec. 17.

NEW MILLS.

- -Otisco, Ind., wants a flour mill.
- -Childress, Tex., wants a flour mill.
- -Waterloo, Ind., wants a new flour
- -Elkhart, Wis., will have a new flour mill.
- -A new flour mill will be built at Green Bay, Wis.
- A new oatmeal mill will be built at Tekoa, Wash.
- -C. M. Barger will erect a new flour mill at Silex. Mo.
- -A new flour mill is being built at Weldon Creek, Mich.
- -A new custom flour mill will be built at Atchison, Kas.
- -Johnson & King will erect a new flour mill at Elva, Ky.
- -The new flour mill at Stanley, Ohio, is about completed.
- -Sheridan, Wyo., will have a new 75-barrel oatmeal mill.
- -A new steam flour mill will be built
- at Greencastle, Ind. J. A. Keith will build a new flour
- mill at Magazine, Ark. -Schanck Bros. will erect a new flour mill at Galion, Ohio.
- -W. A. Harding will build a new flour mill at Hatton, Mo.
- -A new flour mill will be built at Mountain Lake Park, Md.
- -A new flour mill will be built at Roxie, Va., by Miller Bros.

- -A new flour mill will be built at
- -K. P. Hill & Bro. will build a new
- -A. Rockefeller is building a new steam flour mill at Ancram, N. Y.
- -A new flour mill is being built at
- -C. N. Rust will build a new steam flour mill at Granby, Mass.
- -A new flour mill is wanted by the citizens of Johnston, Wash. -A small oatmeal mill will be con-
- structed at Bridgeport, Wash.
- be built at McCammon, Idaho. -The new flour mill at Pima, Ariz. has been placed in operation.
- -Long & Carver have completed a new cornmeal mill at Roxboro, N. C.
- structing a new flour mill at Jack's Mill. Va.
- -A new 40-barrel flour mill will be built at Casky, Ky., by-E. W. C. Edwards.
- -A new flour mill will probably be built at Charlotte, N. C., by C. L. Shriver.
- -The machinery is being placed in the new flour mill at Redwood Falls,
- -A large cornineal mill will be built at Greensboro, N. C., by A. C. Rankin. -A new feed mill will be erected at
- Kirby, Wis. -W. F. Clock has started a feed mill at Bucoda, Wash.
- -D. L. Botsford is building a feed mill at Little Valley, N. Y.
- -Fred Krangle has started a new feed mill at Mapleton, Minn.
- -Charles Welcos has completed a
- new feed mill at Little Prairie, Wis. -O'Connell Bros, have started a new
- a new feed mill at Grafton, N. D.
- -Hansons Bros. have commenced operating their feed mill at Swenoda, Minn.
- -Hijek Bros, have commenced the Ghent, Ky., will have a new flour operation of their feed mill in Howells, Neb
 - -Wheeler & Johnson have placed a new feed mill in operation at Querah, Iowa.
 - -C. C. Deits & Sons are again operating their feed mill at Beaver Dam, Wis.
 - -A new feed mill with a capacity of 40 bushels per hour will be built at Kieler, Wis.
 - -Cross & Hoha have commenced the operation of their feed mill at New London, Wis.
 - -Mr. Erickson has repaired his feed mill at Hayfield, Minn., and placed it in operation.
 - -Aranston & Egan have placed their zer, S. C., was burned recently. new feed mill at Dodge Center, Minn. in operation.
 - -Frank Bunker has purchased windmill for operating his feed mill at Dyersville, Iowa.
 - -L. K. Rose has completed his new feed mill at Olin, lows, and has placed it in operation.
 - -Lincoln Ritchie and John Thompson have purchased the feed mill at West Middletown, Pa.
 - -Nelson & Tullis are at present operating their feed mill at New York Milis, Minn., every Friday.

the operation of their feed mill at built, which, it is expected, will be in Bethany, Minn., on November 28.

mill in connection with his flour and Louis, Mo. feed store at Lancaster, Wis.

-Jens Jenson has purchased the old mill property at Evansville, Wis., and Nov. 17. Loss, \$25,000. will convert it into a feed mill.

have recently completed a number of this evening. Upwards of 500 barrels improvements in their feed mill at of wheat and 500 barrels of flour were Franklinton, N. Y.

A new 100-barrel oatmeal mill will feed mill at Morrison, Ill. Power is stock company. The total loss is es furnished by a 13-horse power Charter timated at \$45,000. Two firemen, who gasoline engine.

-F. A. Thiele has commenced the erection of a feed and exchange mill at Beatrice, Neb. The mill will be -J. T. Price and W. Viar are con- 24x30 feet, and two stories in height.

FIRES.

-Beloit, Wis., Nov. 22.-The large flouring mill owned by C. B. Salmon was burned to the ground this morning; loss, about \$37,000; insurance, \$17,000. This was the largest-five in Beloit within the last five years. The fire caught from the furnace.

-C. A. McClain's mill, Livermore, Cal., burned.

- -S. J. Cherry's mill, Preston, Ont., burned.
- -8. S. Hugh's grist mill, Difficult, Tenn., burned.
- -Weaver & Mabee's feed mill, Watervliet, Mich., burned; loss, \$3,500; insurance, \$2,000.
- -The Salmon Milling Company's mill, Beloit, Wis., burned; loss, \$50,000; partially insured.
- -J. T. Hardage & Co.'s grist mill and other property, Kennesaw, Ga.,
- burned; no insurance. -The Trowbridge flour mill at South -Coulton & McLean have completed | Haven, Mich., was destroyed recently. Loss, \$10,000.
 - -Macon, Mo., Nov. 22.-Macon Elevator totally destroyed, together with nearly 5,000 bushels of corn and oats. Loss on building and machinery, \$10,-000; insurance on building, \$2,500; on grain, \$900. The elevator and contents were property of Postmaster F. A. Dessert.
 - -Weaver & Mabee's feed mill at Watervliet, Mich., has been burned. Loss, \$3,000; insurance, \$2,000.
 - -Westminster, Md., November 20, water-power grist and saw mill of Jesse Bankert, on Meadow Branch Creek, one and one-half miles from Uniontown on road leading to Tyrone, destroyed. Supposed incendiary origin. Insured for \$2,500 in Farmers Mutual Fire Insurance Company of Dug Hill, Carroll County.
 - -Harvey Drummond's mill at Swit
 - -The Rex Mill, Kansas City, was burned on the night of the 6th inst. Fire was discovered in the dust room, resulting, it is supposed, from an explosion, and the flames were not gotten under control until the handsome building was a mass of ruins. The loss will approximate \$150,000, the grain elevator and its contents being The saved from the general ruin. mili had a daily capacity of 1,500 barrels; it was built by the E. P. Allis Co. in 1898, and its capacity easily run up to 2,000 shortly after it started. A large export trade was enjoyed by the

-Hagerty & Burbank commenced mill. It is said that a new mill will be operation in about seven months. The -William Totman is operating a feed mill was owned by Kehlor Bros., St.

-The St. Anthony and Dakota elevators burned at Crookston, Minn.,

Flint, Mich., Dec. 1.-The Thread -Richard Stewart and Scott Ellis Flouring Mills were destroyed by fire also burned. The plant was compara -C. E. Kidd & Co. have built a new tively new and was owned by a loca' were overcome by heat, fell from & ladder and suffered temporary injuries.

-Auburn, N. Y., Nov. 27 .- Flouring mill at Union Springs burned with its contents. Loss, \$5,000; insurance, \$3,500. It was owned by Clinton T. Backus.

-A. J. Urnston flour mill at Frankton, Ind., burned Dec. 5. Loss, \$10,-

CHICAGO AND NORTHWEST GRANARIES COMPANY.

The fifth annual meeting was held on Tuesday afternoon, December 5, in London, Mr. H. Seton-Karr, M. P., presided, and said that the profits for the past year were the largest since the company started. They would agree with him that this was a very satisfactory showing, especially in view of the fact that the total turnover of grain had been the smallest during the history of the business. The chief reason of the large profits was the high standing and credit of their managers in Minneapolis, which had enabled them, during the tightness of the money market, to borrow the money necessary to carry on their business at comparatively moderate rates.. The transfer of \$33,000 from profits to working capital account was in accordance with the original understanding with the managers that the working capital should be raised to £100,000 in order to save interest on borrowed money.

FOREIGN NOTES.

Consul General Morss reports from Paris that the wheat crop of 1894 in France is 350,000,000 bushels. He adds:

It is estimated that the crops of 1894. throughout the world, will be 35 per cent. in excess of the world's demand for consumption and seed, which, in view of the large accumulation from previous years, affords little ground for anticipating a higher range of prices in the near future.

Consul General Mason, of Frankfort, reports an enormous increase of German cereal imports from Russia under In the new Russo-German treaty. the first seven months of 1893 the Russian wheat sold in Germany aggregated about 11,000 tons; in the first seven months of the present year, 95, 000 tons.

BUSIER THAN THE BEE.

How doth the little busy ad Improve each shining minute, And gather dollars, dimes and cents For the merchant who is in it. -Printers' Ink.

THE BIG JACOBS PLANT.

The Leading Cooperage Plant and Firm of Milwaukee and the State.

The remarkable growth of the tight and slack barrel cooperage business of B. A. Jacobs & Son, of Milwaukee,

Viewing the big plant as it is to-day, it seems hardly credible that the founder, B. A. Jacobs, started the business

a chip of the old block

office for a while at 121 Sycamore foundation of the great business now mer, after a long illness. He was one Street, but their prosperous business done annually by Jacobs & Son as the of Milwaukee's best and most reliasoon forced them into larger quarters owners and operators of the biggest ble citizens, solid financially and popwith shipping facilities. They rented cooperage establishment in Milwaukee ular in a wide circle of friends. is well known to every miller of the a large place on Fowler Street, and lat- and the Northwest. city and to a large list of patrons er leased the old Nunnemacher dock out of the city who use tight or slack near the old Kraus mill. The next nue and Nineteenth Street, was start mastered every detail of the business barrels, kiln-dried flour barrels and step in the steady development of the other products of the big Jacobs shops. business into the biggest of its kind was the leasing of the Kershaw salt docks in 1887.

But the end of the increase was not with almost nothing in 1880. Mr. to come then, by any means, and, for Jacobs started in business with Wm. that matter, it has not come yet. After

ness ability of a high order. He was B. A. Kern & Son and began to make flour barrels. The Kern trade was

The present plant, on St. Paul Ave-

The Miller regrets to have to add that the worthy founder of the great The firm of father and son had their large and helped a good deal to lay the business, B. A. Jacobs, died last sum-

The business is now conducted by Mr. Jacobs' son, Kenneth, who has



EEITHETH W. JACOBS.

B. A. JACOBS.

vestment was \$1,000.

self at once, and his business grew Canal. rapidly.

Brigham & Co., and his original in-; the lease of the salt docks the father

Jacobs & Son did not begin the man-

and son found that their patronage Mr. Jacobs soon sold out, rented was getting so large as to demand desk room from Tom Mitchell, and be- that they have docks and trackage of gan to deal in cooperage stock. Mr. their own. Accordingly, some dock Jacobs' rare good judgment, enterprise property was at once occupied by the and great business ability showed it- firm at Fifteenth Street and North



THE NEW PLANT.

Boardman & Son, at 151 West Water previously dealt in cooperage stock Street, he started in the fall of 1886 only. The manufacture of barrels was very young man, begun to show busi- bought the cooperage business of J. sides small lots.

After having his office a while with ufacture of barrels until 1899, having

a day.

cooperage, and flour barrels are ele- experience. vated to the third floor to be finished. Adjoining the cooper shops is a ware-

house, 60x80, and a storage house, 45x100. Tracks run the length of is a first-class one in every respect.

ed in 1892. The next year the firm and who, long before his father died, concluded that the Kern machinery showed that he was perfectly compewas out of date, and they replaced it tent to run the big business. The all with the very latest improved ma- son's continued success in the business chinery. The capacity of the plant makes him one of the foremost young was increased to 3,000 flour barrels business men of the city, and The Miller confidently predicts that all The dry kiln is on the lower floor, who may have dealings with him the second floor is devoted to the pork will have a pleasant and satisfactory

> The firm issues a very attractive and useful catalogue of coopers' tools.

Poutiac, Mich., Post.—Patrick Bishthe plant in the rear for the car-load op, of Branch County, has tried the business, and the plant, as a whole, experiment of feeding ground wheat to hogs with the following results: On



THE OLD PLANT.

But the capacity is not yet big September 10th he drove 17 head, old keep up with the growth of their busiare preparing to make another addition for pork barrels. The sales of 1894 have already amounted to more than \$100,000, and the firm is now making about 1,000 barrels a day,

enough, and the firm, hardly able to and young, on the scales and they weighed 1,450 pounds. He fed them 40 bushels of ground wheat and paid 6 cents a hundred for grinding. He weighed them again October 23rd, after feeding the 40 bushels, and they and a force of seventy-five men are at weighed 2,600 pounds. There was a work. The firm carries a big line of cooper- cents per pound, the price now paid Jacobs, who had already, though a barrels, and in 1890 Jacobs & Son of cooperage stock in November, be at the rate of \$1.22 per bushel for the wheat fed.

BOOKS AND MAGAZINES.

announcement that Harpers will print during 1895 the "Personal Recollections of Joan of Arc," written by "the most popular of living American magazine writers," has set curious persons wondering who this author is. It ought not be very difficult to find "the most popular American magazine writer." In order to attain this distinction, he or she must have written stories that were afterwards reprinted in book form, and the statistics of the circulating libraries would give some valuable hints on this point. Besides, the number of American popular magazine writers who would undertake to put into a novel the most romantic series of events in all history is not large.

The authorship of "The Breadwinners," we believe, has never been divulged. Plenty of men and women have claimed to know who wrote it, and several interesting persons have said modestly that they were the authors, but the public does not yet know whether anybody has told the truth. It remains to be seen whether the "Personal Recollections of Joan of Arc" will provoke as long a search for the writer as "The Breadwinners" did. At present "The Breadwinners" has no rival in popular anonymity; it hardly has a second.

Mrs. Kinnicute, of New York, has written an article for the December Century on "The American Woman in Politics." Mrs. Kinnicute believes in the political influence of women pri vately and socially, without the ballot.

An American story called "The Walking Delegate," by Rudyard Kipling, appears in the Christmas Century. The characters in the story are all horses. One of them, Muldoon, a New York car horse. "On de Belt," says Muldoon, "we don't reckon no horse worth his keep 'less he kin switch de car off de track, run her round on de cobbles, and dump her in ag'in ahead o' the truck what's blockin' him."

The art of living is just now occupying the mind of Robert Grant, and the results of his cogitations will be seen Scribner's Magazine during the coming year. He will discuss in a lively series of papers the practical problems of life which have to be solved by the average American family of moderate income and refined The income, the home, the tastes. household expenditure, married and Current,

single life, the education of children, the "Summer problen" for city people, and many other interesting questions will come up for treatment in fresh and animated fashion. The essays certainly promise to be entertaining.

Mrs. Rebecca Harding Davis, whose name has been of late less prominent than that of her clever son, has again taken up her pen. Her admiring readers will find in Harper's Bazar during the coming season a novel of American life entitled "Dr. Warrick's Daughters." The scene is laid in Pennsylvania and the South.

The two volumes of Frederic Masson's work, "Napoleon at Home," are in preparation by the J. B. Lippincott Company; and these will be followed by his book on "Napoleon and the Women of His Court."

DECEMBER CROP REPORT.

Monthly Statement Prepared by E. N. Thoman, Statistician.

Winter Wheat, Area-The area of wheat sown this fall as compared with last has been increased by 1.9 per cent., equaling 445,399 acres. This average indicates a total of 24,884,-339 acres, as against 24,438,940 acres in 1893. The increase in the principal states are as follows: Indiana 3 per cent., Illinois 3, Missouri 3, Kansas 2, Californal 13: Ohio has practically the same area as was sown last year, while Michigan shows a decrease of 3 per cent.

Even though the increase is small, it comes in the nature of a surprise, it has been confidently expected that on account of low prices there would be a decided decrease. It is possible that the good results obtained from feeding wheat is responsible for

Winter Wheat Condition-With the exception of Texas, Tennessee, Kentucky, Kansas and Nebraska, the wheat plant is in good condition. The average for the whole country is 94.7 per cent., against 91.5 last year, and 87.4 in 1892. Drouth has been the cause of a rather low condition in the states named. The plant in many instances is not up; where it has shown it is in a sickly condition. Rain is needed almost immediately, to give the plant sufficient vigor to carry it through the winter, especially if we should experience an open winter like that of 1893.

The averages for the principal states are: Ohio 99 per cent., Michigan 99, Indiana 96, Illinois 95, Missouri 96, Kansas 80, and California 101.-Price

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If you have an invention on hand send a sketch or photograph thereof, toat you have an invention on hand send a sketch or photograph thereof, to-gether with a brief description of the important features, and you will be at once advised as to the best course to pursue. Models are seldom necessary. If others are infringing on your rights, or if you are charged with infringement by others, submit the matter to us for a reliable OPINION before acting on the

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Cut this out and send it with your inquiry.

WISGONSIN WEATHER AND GROP JOURNAL,

Official Publication of the Wisconsin Weather Service.

Vol. III.

MILWAUKEE, WIS., DECEMBER, 1894

WISCONSIN WEATHER SERVICE. MILWAUKEE, WIS.

All communications relative to this service should be addressed to the Director, Samuel (). Emery, Observer United States Weather Bureau.

NOVEMBER WEATHER REVIEW

Numerous low pressure or storm areas passed over the state during the month, the most notable of which were those occurring on the 2d and 3d, the 7th to 10th, 13th to 15th, and on the 20th. The first three of these storm disturbances caused severe gales on the lakes and general rains throughout the state, while that of the 20th resulted in high winds only.

The month, as a whole, was an extremely stormy one on the lake, and the same can be said of winter rve.navigators report that it was the worst | E. W. Pierce. November in many years for sailing.

Heavy rain occurred on the 2d and 3d, upon which days nearly half of the month's precipitation was received. General rain or snow also occurred from the 7th to 13th, and after that date the only precipitation was a few light flurries of snow at scattered stations, from the 18th to 22d and the 28th and 29th. In the northern portion of the state snow lay on the ground at the beginning of the month, but in the central and southern portion the first occurred quite generally on the 7th. No heavy snowfalls are reported, but in most sections enough fell to afford protection to winter grain during the severe freezing weather near the middle and end of the month. The average snowfall was 91/2 inches. The greatest, 26 inches, at Crandon, and least, a trace, at Chilton. The rainfall for the state averaged 1.65 inches. which is .28 of an inch above normal. The greatest recorded was 3.95, at Oconto, and the least, .13 of an inch. at Osceola Mills.

As to temperature, the month opened warm, and the maximum occurred on the 1st and 2d, after which came cold, Jos. G. Lawton. freezing weather, the temperature reaching a minimum of from about zero to 10 below, on the 10th. A cold wave also visited the state on the 28th, but the month closed warm and pleasant. The average temperature for the month was 28 degrees, or 2 degrees below the normal. The highest was 64, at City Point, on the 12th; the lowest, 11 below zero, at Butternut, on the

The prevailing wind was northwest: average number of clear days, 5; partly cloudy, 11; cloudy, 14, and days with rain or snow, 6.

OBSERVERS' NOTES.

Amherst-Snow all gone except in drifts and in woods-A. J. Smith.

Antigo-Snow on ground sufficient to protect crops from 9th to 13th and from 22nd to 29th. Even depths.-A. B. Millard.

Beloit-Snow lay very 'evenly on ground from 7th to 13th. None on ground at end of month.-Prof. C. A. Bacon.

Belleville-Northwest gale and snow qualis on 9th. The snow that fell on the 9th and 12th disappeared with the warm south winds of the 14th and 15th. The one inch of snow that fell on the 29th nearly all disappeared on the 30th. Only a trace left.-H. E. Story.

Baraboo-Snow was all gone by the 15th inst. Ground is reasonably moist and wheat looks all right.-Wm. Toole.

Barron-First snow of the sesson fell on the 2nd. A severe snow storm on the 9th, and southwest winds shifting to northwest by night and blowing a gale. Ground not frozen over three inches. Winter wheat has been protected nicely so far and is looking fine.

Black River Falls-First snow of the season fell with some rain during the night of the 2nd. Rain, snow and sleet fell on the 13th .- H. H. Powers.

Crandon-The ground was covered to a sufficient depth to afford protection to crops in ground the whole month. Snow lies in even depths; 12 inches on ground at end of month .-John Masbaum.

Chippewa Falls - The greatest amount of snow which fell during the month at one time was four inches and that was on the 8th .- P. T. Favell

Centralia-Snow fell on the 7th and 9th, but has gradually disappeared until now there is but little left. It lay quite evenly, but never enough for sleighing. Appearances favorable for both grain and cranberries.-R. C. Worthington.

De Pere-Snow fell on the 7th, 9th, 12th, 19th, and 29th. On 7th, 9th, it melted as it fell. Ground bare on the 15th, and what little fell on the 19th and 29th was gone on the 30th. But I heard of no damage from cold .--

Delavan-Very foggy on the 1st. Ponds and creeks closed up on the 11th. 30th: Ice about 8 inches thick. Many farmers were caught with corn in the shock to be huskedbut most of it husked at present time No snow on ground at end of month .-E. S. Austin.

Dubuque, Ia.-First snow of the season fell on the 2d.-T. W. Ruete.

Eau Claire-Snow covered ground well for one week. End of month the ground was bare except where well shaded.-C. W. Lockwood.

Florence-Snow covered ground en tirely since 2d.-John Halter.

Grantsburg-During the month we have had a snow fall of 161/2 inches.-Th. Olsen.

Hartford City-First snow of season fell on the 4th. From the 4th to the 18th the snow covered the ground evenly, sufficiently to protect all crops From the 18th to the 29th the ground was bare and froze hard 4 inches deep. -8. T. Crandall.

Hayward-Snow enough to afford protection to crops, with the exception that there were frequent barren spots, resulting from snow drifting.-W. E.

Harvey-The beginning of the month was extremely wet and disagreeable while the latter part was cool and dry. Winter grain is going into the winter strong and healthy and not suffering any to date. All stock are in winter quarters in good trim and fed fairly plenty .- S. N. D. Smith.

Hillsborough-First snow flakes of the fall on the 2d. Very windy on the 20th. No snow on ground at end of month .- E. V. Wernick.

Koepenick-The ground was covered from the 2d to the end of month sufficiently to protect all kinds of crops. Snow lies evenly.-E. S. Koepenick.

Lancaster-The rainfall of the morning of the 2d was mixed with snow several hours.-Edward Pollock.

Manitowoc-River frozen over on the night of the 18th and 19th.-Johanna Lups.

Neitlsville-We had some warm days, which have reduced the snow. There is very little on the fields at the end of the month.-Wm. Heaslett.

Oconomowoc-The ground was covered with snow on the 8th. Heavy mist on the 22d. Labelle Lake froze over on the 24th. High wind on the 27th.-John Bender.

Osceola-Three inches of snow fell during the month but did not lie on the ground more than twenty-four hours Very dry month. Ponds froze over on the 11th. River froze over on the 20th. Ground bare at the end of month and roads hard and smooth.-C. W. Staples.

Pepin-Winter crops were, part of the time, protected by snow and are in good condition, owing to the cloudy and calm weather. The ground is frozen. Lake Pepin froze over the 19th .- C. Stoltenburg.

Portage-The first of the month was cold and the snow remained on the ground until the middle of the month when it melted. The last of the month has been cold and the ground bare.-Anna L. Bean.

Pine River-15th-Snow lies in patches and is melting fast. 30th-There is only small patches of snow here and there.-G. H. Carpenter.

Royalton-Snow covered the ground evenly, affording some protection to crops from the 7th to 20th-at no time over 7 or 8 inches. From the 20th to 30th the smooth frozen roads made excellent wheeling. No sleighing here this month.-B. M. Corey.

Sharon-There were some snow

Shawano-The ground had more or covering at end of the mouth in most

Spooper-Snow on ground nearly the whole month from the 3d.-Phil. Bock.

Stevens Point-First snow of the season on the 3d. The ground has been bare most of the month. The snow not staying on ground long at a time. The Wisconsin River froze over on the 11th.-Chas. H. Towle.

Viroqua-The snow was drifted badly on the 15th. None on ground at end of month, only as it was in drifts .- F. W. Alexander.

Valley Junction-First snow of the season fell on the night of the 6th .- J. N. King.

Waukesha-The ground was bare of snow except where drifted and in shady places from the 20th to 29th. Two inches on ground at end of month.-A. V. B. Dey.

Weston-First snow of season fell on the 2d. Nine and one-half inches of snow has fallen the past month, but there was scarce an inch at end of month.-Robt. Revnolds.

West Bend-Mean relative humidity for the month 83.7 per cent. Amount of sunshine for month 31 per cent.-Rev. J. E. Terborg.

PRECIPITATION.

Except over a few areas of compara tively limited extent, November was a very dry month. On the Coast of Washington, over the Upper Michigan Peninsula, Southern New England, and portions of Florida and Georgia, the precipitation exceeded the November average, the excess amounting to from 1 to 2 inches over the Upper Michigan Peninsula, Southeastern Georgia, and Northeastern Florida. Slight local excesses are also reported from Southeastern Iowa, Northern New York, and the Northern portions of Minnesota, and North Dakota. In all other districts the precipitation was less than the average for November, marked deficiencies occurring in Texas, the Central Valleys, Lower Lake Region, and on the Middle Atlantic Coast from Southern New Jersey to North Carolina, and in the Cen tral Gulf States.

From the Gulf Coast northward to the Missouri and Ohio Valleys, including the Lower Lake Region, from 1 tc 4 inches less than the normal amount of rain fell. The deficiency on the Pa. cific Coast southward of Washington, was also very decided, but little rain, generally less than half an inch, having fallen in that region during the month.

Throughout the winter wheat belt the actual rainfall was generally less than 2 inches, or less than half the normal amount, and over much of the central and western portions of the cotton region the actual precipitation banks at the end of the month.-J. G. did not exceed one-fourth the average, Alabama and portions of Georgia, Mis sissippi, Arkansas and Louisiana re less snow on from the 7th-with light celving less than 1 inch, while over Western Texas, Oklahoms, and Kanfields and in the woods.-W. S. Wood, sas, and thence westward to Southern

Daily and Monthly Precipitation for November, 1894, Wisconsin Weather Service.

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rain fell.

The month closes with but little snow on the ground, except over the Northern Michigan Peninsula, portions of which are covered with from 8 to 9 inches. A depth of 3 inches is reported from Northern Minnesota and in portions of New England there is a light covering of from 1 to 2 inches. MARK W. HARRINGTON,

Chief of Bureau

PERSONAL NOTES.

Mr. J. O. Melby, of Whitehall, Wis., will attend to the duties of Voluntary Observer for the Wisconsin State Weather Service from this date, Mr. W. D. Buchholz having resigned on account of press of other business. Mr. Buchholz has been a faithful observer for some time past, and the Bureau takes this opportunity to thank him for past favore

Mr. T. A. McCollam, of Juneau, Wis., takes up the duties of Volunteer Observer for the Wisconsin State Weather Service this month in place of Rev. A. Brown, whose resignation was handed in a few weeks since.

Prof. W. N. Parker, Superintendent of the Reedsburg Public Schools, has agreed to look after the interests of the Wisconsin State Weather Service at that place in the future, Mr. W. B. Smith having resigned.

Mr. P. P. Porter, of the Central Of- California. Exceptionally high temfice, has taken advantage of a leave of absence for a few weeks to visit over the Eastern Rocky Mountain the purpose to the following places: Bend, 10th, 15th.

California, no appreciable amount of his home, in Boston, Mass. He has Slope between the 11th and 15th, on Hancock, Ciontarf, Benson, DeGraff, promised to bring back several pots of

NOVEMBER WEATHER.

Washington, D. C., Dec. 1, 1894. TEMPERATURE.

The month of November was warm er than usual over the Rocky Mountain Slope and thence westward to the Pacific Coast and over the greater por tion of Texas. The average dail temperature excess amounted to 3 degrees, or more, over nearly the whole of the regions named, and over the Central Rocky Mountain districts ranged from 6 degrees to 9 degrees, the greatest excess occurring in Western Wyoming. Throughout the Mississipi Valley and in all districts to the eastward, the month was colder than usual, the temperature averaging from 3 degrees to 6 degrees below the normal from Minnesota, Iowa, and Northern Missouri eastward to the New England and Middle Atlantic Coasts, the greatest deficiency occurring in the Lake Region and Upper Mississippi Valley. In the South Atlantic and East Gulf States the average temperature of the month, though generally deficient, was but slightly below the normal.

From the 5th to the 9th unusually warm weather for the season prevailed over Arizona and portions of peratures for the season also occurred

which dates numerous stations reported the highest yet observed in the second decade of November.

From the accompanying map, showing lines of maximum and minimum temperature, it will be seen that during the month the line of freezing temperature touched the Eastern Gulf and South Atlantic Coasts as far south as Jacksonville, Fla., while temperatures as low as 20 degrees (12 degrees below freezing) occurred over the northern portions of Georgia, Alabama, and Mississippi. Zero temperatures occurred from Eastern Montana eastward to the northern portion of the Upper Lakes and southward to Central Wisconsin and Southern Minnesota. The temperature extremes within the United States during No vember were: Highest, 92 degrees, Yuma, Aris., and Los Angeles, Cal., on the 6th and 14th, respectively; lowest, 24 degrees below zero, at St. Vincent. Minn., on the 28th.

MINNESOTA WEATHER SERVICE.

Arrangements have been made which will enable a large section of Minnesota hitherto unprovided with weather forecast stations, to enjoy the benefit of the signal service system. The weather burean in Minneapolis will telegraph daily forecasts to Morris, from which point reports will be 13th; Crandon, 9th, 11th; De Pere, mailed on postal cards prepared for 11th; Valley Junction, 11th; West

Murdock, Kirhaven, Pennock, Willmar, Kandiyohi, Atwater, Grove City, Donnelly, Litchfield, Darwin, Chokio.

A SEVERE WINTER PREDICTED.

All of the popular weather signs. says an exchange, indicate an early and severe winter. The infallible goose bone is heavier and whiter than at this time for years past. Nuts are extraordinarily plentiful. They serve as food for squirrels and a number of rodents, and it is believed that nature regulates the crops in accordance with the length of the period during which these animals must rely for sustenance upon their stores gathered in the fail. It has also been noticed that chestnut burrs are heavier than the average, that migratory birds are leaving their summer haunts ahead of time, and that dogs manifest an intense desire to bark at the man in the moon. Among other cold-weather signs are greater thicknesses of the wool on sheep and of the pelts of fur-bearing animals. With such overwhelming evidence before us, it will be prudent to prepare for the reception of the ice king.

MISCELLANEOUS PHENOMENA.

Solar Halos-Black River Falls, 23d, 24th; Grantsburg, 22d; Valley Junction, 1st, 11th, 17th; Weston, 1st.

Lunar Halos-Black River Falls,

Official Monthly Meteorological Data for November, 1894, Wisconsin Weather Service.

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· Record incomplete.

† Last 14 days.

! Incomplete.

Also 10th and 22d.

TENNESSEE WEATHER FOR NO- temperature of which there is any rec-**VEMBER**, 1894.

The month of November, 1894, while drier than the normal, received a larger percentage of precipitation than did October. The drouth which set in about the middle of September continued up to the 17th when it was broken by good rains in the central and eastern portions of the state. The most of the rain which fell during the month occurred on the 17th and 23d.

The temperature during the early part of the month was much below the normal, culminating in a cold wave

ord so early in the month. This cold wave was much more severe in the central section of the state than in either of the other two divisions.

Frosts occurred quite frequently Frosts occurred quite frequently throughout the state. Snow occurred in the middle and eastern divisions on the 11th, but was generally very light.

Looks at the rise and setting sun, the 11th, but was generally very light, disappearing as rapidly as it fell. The exceptions were two inches at New-

the 12th, which caused the lowest of the weather of November, 1894, in

Louisiana, was that it had less rainfall Get in your cellars, my dear friends, than any November since state weather service observations began, the precipitation averaging but 1.57 inches for the state at large, which is 2.20 inches below the average fall of past seven years. November of 1890 gave but slightly more rainfall in South Louisiana, but North Louisiana received three inches that month. November, 1893, with an average fall of six and a quarter inches for the state, is the heaviest on record for the month.

THE WEATHER MAN.

The weather man in his domain Is lord of all, you bet; He knows the days that will be dry The color of the sky.

The clouds roll up in masses black. port and half an inch at Byrdstown.

NOVEMBER, 1894, IN LOUISIANA.

The marked meteopological feature

The marked meteopological feature The marked meteorological feature 'Twill rip and tear in its advance of the weather of November, 1894, in Like a new-made keg of beer.

Your precious lives to save; I've notified all crafts in port That plow that rolling wave. Lash the cook to the kitchen stove, The captain to the mast, The sallors to the anchor fluke, Until the storm has passed.

Down on your knees, you sinners, Who have never knelt before.
Get down behind the bed-post,
Or hide behind the door.
For I never, hardly ever, Miss it, don't you see?
And the storm as advertised will come,
On land and on the sea.

The great rains fell a thimbleful,
The wind six knots or more;
Come up, come up, from there, my friends,
The fearful storm is o'er. ...
A tampest in a teapot
'The great storm proved to be;
There was no ripping on the land
Or tearing on the sea.

They came out with their guns then, And others with a rail, To give the weather man a ride, To give the weather man a ride,
Because be never fails.
They looked about both high and low;
On mischlef they were bound;
But the weather man had disappeared,
And he could not be found.
P. S.—He went home soon after and died.
—F. B. H., the Poet-Laureate of the Grand
Haven Station. =The ===

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